Electrotherapy

450 - 455 Combination Therapy & Vacuum
456 - 458 Ultrasound Therapy
459 - 464 Interferential & Muscle Stim
466 - 467 Neurostimulation
468 - 470 Bio Feedback
471 - 472 Laser
473 - 477 Shortwave
478 - 481 Electrotherapy Accessories
482 - 485 TENS
486 Magnetic Therapy
487 - 488 Compression Therapy

ENRAF NONIUS

Partner for Life

Innovative products to switch you on…

We are proud to be exclusive partners for Enraf-Nonius in the UK. Enraf-Nonius have been developing products for physical therapists for over 80 years. They have a passionate interest in continually developing new and innovative products to support healthcare professionals worldwide.
With the Enraf-Nonius brand you can always be guaranteed of reliability, functionality and durability.

We have a dedicated service & repair centre

Ask about our:

- Service maintenance contracts
- Workshop service & repair
- Field service & repair

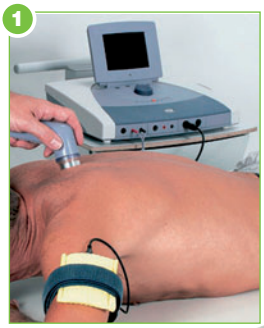
Why not..?

- Trade in your old equipment
- Hire
- Lease

Call us for more details

Electrotherapy - Update Your Skills!

We often run Electrotherapy Update courses with Dr Tim Watson, held at various venues around the country throughout the year. Call us for the latest course details.



ENRAF NONIUS
Partner for Life

SONOPULS 692V

1 Sonopuls 692, 692V & 692VS

Complete equipment for ultrasound, electro and combination therapy

The Sonopuls 692 is the latest innovation in combination therapy, and is a versatile and highly advanced piece of equipment for ultrasound, electrotherapy and combination therapy.

Its design features include a crystal clear colour LCD screen and finger tip control, making calling up protocols quick and easy.

With its 'therapy assistant' you have all the relevant treatment protocols ready to hand; an aid that will quickly prove to be indispensable in your practice.

In addition you can create a separate protocol with the 'therapy wizard' and store it in memory, ready for the next treatment session and get to work straight away.

The Sonopuls 692 is available with a vacuum unit: Sonopuls 692V The whisper quiet suction wave device has the option to apply four vacuum electrodes. The suction power can be set across a broad range and be applied either continuously or pulsed. A regulator system lets the pump only work when the vacuum has fallen below a certain minimum level.

The vacuum electrodes are quick and easy to attach. They fit fully and comfortably to the body's surface. The electrode positioning is straightforward and easy to use and ensures a good contact across the full surface of the electrode.

Features

- Ultrasound, electro and combination therapy
- 16 different electrotherapy currents
- Continuous and pulsed ultrasound 1 & 3MHz with accurate dosage
- Therapy Assistant (Pre-programmed protocols)
- Therapy Wizard (Customizable programmes)
- Colour LCD screen
- Finger tip control
- Option to upgrade with StatUS™ module (692VS) - See page 457 for further details
- Further option to upgrade with EMG module - call for further details

	Model	Detail
017102	Sonoplus 692	Standard Combination
017099	Sonoplus 692V	With Vacuum
09 131 2024	Sonoplus 692VS	With Vacuum & StatUS™

Standard Accessories for 692

- Moist pads for rubber electrode 6 x 8cm, set of 4
- Multi-frequency treatment head, large (5cm²), 1 & 3 MHz
- Strap 100 x 3cm
- Strap 250 x 3cm
- Patient cable 2-core & 2mm male plugs - black
- Patient cable 2-core & 2mm male plugs - purple
- Rubber electrodes 6 x 8cm, 2mm female - set of 2
- Mains cable 230V
- 250ml contact gel

Technical Specification	
Current Channels:	2 independent, fully galvanically isolated
Current types:	16 current types (36 variants)
Ultrasound Frequencies:	1 & 3 MHz
Ultrasound:	Pulsed & continuous
Pulse frequency/duty cycle:	100Hz/ 5, 10, 20, 50, 80%. 16Hz/ 20%. 48Hz/20%
No of US connections:	2
No of vacuum electrodes:	4
Intensity:	0 - 2W/cm² continuous, 0 - 3W/cm² pulsed
Supply voltage:	100 - 240V + 10% (50/60Hz)
Dimensions (w x d x h):	45 x 37 x 29.5cm
Weight:	6.2kg
Warranty:	2 years

SPARES
Spares are available for these products, making them suitable for refurbishment. For full spares listing, see pages 1193 to 1200.

DELIVERY
Delivery is approximately 3 to 4 weeks. Please contact Customer Services for more information.

ENRAF NONIUS
Partner for Life

BATTERY PACK AVAILABLE

1 Sonopuls 492

High quality, extreme functionality and an eye-catching design, provide the professional physiotherapist with all modern current forms plus dual frequency Ultrasound.

Features

- 1 and 3MHz treatment head with Contact control
- Continuous and pulsed ultrasound
- 2 & 4 pole Interferential
- 19 Current types including Interferential, TENS, Stim, Faradic etc
- 50 Preset protocol programs
- 10 Programmable memory positions
- Battery Option
- Can be used in conjunction with Vacotron S & Vacotron 460

Standard Accessories

- 5cm² multi-frequency treatment head
- 250ml contact gel
- 2 x 2-pole patient cable
- 4 electrodes 6 x 8cm
- 4 sponges to fit 6 x 8cm electrodes
- 1m & 2.5m (3cm wide) strap
- Mains lead & power supply
- Operating instructions and treatment guides with photographs

014817 Sonopuls 492

Optional Accessories

S1514 Enraf Sonopuls 490 / 492 Battery pack

022094 Trolley for Enraf 4 Series with trays
(see page 481 for more details)

09 131 2016 4 Series Pro Padded Carry Bag
(see page 481 for more details)

Technical Specification	
Ultrasound	
Frequency	1 & 3MHz on all treatment heads
Treatment heads	5cm² and 1cm²
Output modes	Continuous and pulsed - 80%, 50%, 20%, 10% ,5%
Intensity	0 - 2W per cm² (Cont) or 0-3W per cm² (pulsed 5%, 10%, 20% or 50%) or 0-2.5W per cm² (pulsed 80%).
Timer	0-30 minutes
Electrotherapy	
Interferential Carrier Frequency	2KHz, 4KHz to 10KHz
Output selection	2 & 4 pole with vector & dipole vector
Frequency range	0-200Hz (beat) 0-180Hz (spectrum)
Output current	0 - 100mA
Timer	0 - 60 minutes
Waveform mode	1/1s, 6/6s, 12/12s or 1/30/1/30s
Other waveforms	TENS, High voltage, Microcurrent, Russian, Diadynamic, Faradic, IDC, Asymmetrical biphasic pulsed current & Medium frequency direct current all with variable settings.
General	
Weight	4kg
Dimensions	Width 28cm. Depth 29cm. Height 11cm
Power requirements	100 - 240V 50 - 60Hz
Warranty (Unit)	2 years

DELIVERY
Delivery is approximately 3 to 4 weeks. Please contact Customer Services for more information.

SPARES
Spares are available for these products, making them suitable for refurbishment. For full spares listing, see pages 1193 to 1200.

ENRAF NONIUS
Partner for Life

MAINS OR BATTERY POWERED AS STANDARD

1 Sonopuls 491

This portable mains / battery powered combination unit provides Ultrasound Therapy (1 & 3MHz), 2 pole Interferential, TENS, Direct Current and Combination Therapy.

Features

- 1 and 3 MHz treatment head with Contact control
- Continuous and pulsed ultrasound
- Interferential with Variable carrier frequencies
- 3 Current types:- Interferential, TENS, and direct current
- 10 programmable memory positions
- Can be used in conjunction with Vacotron 460
- Battery included

Standard Accessories

- 5cm² multi-frequency treatment head
- 250ml contact gel
- 2-pole patient cable
- 2 electrodes 6 x 8cm
- 4 sponges to fit 6 x 8cm electrodes
- 2.5m (3cm wide) strap
- Mains lead & power supply
- Operating manual and treatment guides

014816 Sonopuls 491

Optional Accessories

022094 Trolley for Enraf 4 Series with trays
09 131 2016 4 Series Pro Padded Carry Bag
(see page 481 for more details)

Technical Specification	
Ultrasound	
Frequency	1 & 3MHz on all treatment heads
Treatment heads	5cm² and 1cm²
Output modes	Continuous and pulsed - 50%, 20%, 10%, 5%
Intensity	0 - 1.5W per cm² (Cont) or 0 - 3W per cm² (pulsed)
Timer	0 - 30 minutes
Electrotherapy	
Carrier Frequency	2KHz, 4KHz to 10KHz
Output selection	2 pole
Frequency range	0 - 150Hz +100Hz
Output current	0 - 100mA (0-60mA in combination)
Timer	0 - 30 minutes
Waveform mode	6/6s or 1/30/1/30s
Other waveforms	Asymmetrical biphasic pulsed current & Medium frequency direct current
General	
Weight	4kg
Dimensions	Width 28cm. Depth 29cm. Height 10.5cm
Power requirements	100 - 240V 50 - 60Hz
Warranty Unit	2 years

DELIVERY
Delivery is approximately 3 to 4 weeks. Please contact Customer Services for more information.

SPARES
Spares are available for these products, making them suitable for refurbishment. For full spares listing, see pages 1193 to 1200.

ENRAF NONIUS
Partner for Life

SHOWN WITH COMBINATION UNIT (NOT INCLUDED)

1 Vacotron 460

The Vacotron 460 can be connected to all Enraf-Nonius 4 series electrotherapy and combination units, and can also be used as a table top model. It allows quick application of vacuum electrodes on positions where rubber electrodes and fixation straps cannot be used. It provides continuous and intermittent suction strength, as well as accurate adjustment of the suction strength

Features

- Continuous and intermittent suction
- Accurate adjustable suction strength
- Unique cable connection for fast application of rubber electrodes

Standard Accessories

- Patient cable with 2mm male plugs
- 4 Vacuum electrodes Ø 60 mm
- 4 Sponges Ø 65 mm
- Electrode cable red
- Electrode cable black
- Water reservoir
- Dummy plug
- Mains cable
- Operating manual

014811 Vacotron 460
(Fits 4 series trolley, see page 481 for details)

Technical Specification	
Vacuum	Continuous and pulsed
Power requirements	220 - 240V 50 - 60 Hz
Current consumption	max.0.26 A (at 115V)
Dimensions	35 x 36 x 11cm
Weight	5.7 kg

2 Vacotron S

All the features of the Vacotron 460 with a shaped case to display combination units at an angle.

Features

- Continuous and intermittent suction strength
- Accurate adjustment of the suction strength
- Unique cable connection for fast application of rubber electrodes
- Can only be used as a tabletop model

Standard Accessories

- 4 Vacuum electrodes Ø 60 mm
- 4 Sponges Ø 65 mm
- Electrode cable red
- Electrode cable black
- Dummy plug
- Operating manual

014812 Vacotron S

Technical Specification	
Vacuum	Continuous and pulsed
Power requirements	220 - 240V 50 - 60 Hz
Current consumption	1.0 A
Dimensions	24.5 x 21 x 9cm
Weight	4.2kg

DELIVERY
Delivery is approximately 3 to 4 weeks. Please contact Customer Services for more information.

SPARES
Spares are available for these products, making them suitable for refurbishment. For full spares listing, see pages 1193 to 1200.

1 Dynatron D850 plus

The Dynatron 850 plus offers a large range of standard features alongside some very unique options including Target Interferential, which allows the operator to direct the current to the area required with the electrode placement on the patient, giving a more precise treatment & better outcome.

Ultrasound Features

- Patented multi-frequency ultrasound 1 & 3MHz
- Duty cycles: 10%, 20%, 50%, continuous
- Two additional heads available: 2cm², 10cm2
- Power settings: up to 1.6watts/cm²
- Head warming
- Coupling
- Combo plus™

Electrotherapy Features

- 2 and 4 pole Interferential, Russian, Biphasic muscle stim, High Volt, Microcurrent
- Patented Target and Target Sweep feature for Interferential
- Single, reciprocal, co-contraction modes in Russian, Biphasic muscle Stim
- Selectable and customizable on/off times for High Volt, Biphasic and Russian
- Modify pulse rate, pulse width in Biphasic, Russian
- Microcurrent conductance indicator
- Electrode conductance meter

Standard Accessories

- 5cm² ultrasound head
- Ultrasound gel
- Mains lead
- 2 x Velcro straps
- 2 x patient leads
- 4 x rubber electrodes
- 4 x sponge discs
- Operating manual
- Treatment guide

S4401 Dynatron D850 plus

Optional Accessories

S4403 2cm² 1 & 3MHz treatment head
S4404 10cm² 1 & 3MHz treatment head
S0411 Hard carry case with foam inserts
S0535 Padded carry case

Technical Specification	
Ultrasound	
Frequency	1 & 3MHz on all treatment heads
Treatment heads	5cm², optional 2cm² and 10cm²
Output modes	Continuous and pulsed (50%, 20% and 10%)
Output power	0 - 1.6W/cm²
Timer	0 - 99 minutes
Electrotherapy	
Carrier Frequency	4000Hz
Output Selection	2 & 4 pole
Frequency range	0 - 150Hz
Output current	0 - 100mA
Timer	0 - 99 minutes
Other Waveforms	High voltage, Microcurrent, Russian, Biphasic
General	
Weight	2kg
Dimensions	Width 25cm. Depth 24cm. Height 9cm.
Power Requirements	220 - 240V 50 - 60Hz
Warranty (Unit)	2 years

DELIVERY
Delivery is approximately 3 to 4 weeks. Please contact Customer Services for more information.

SPARES
Spares are available for these products, making them suitable for refurbishment. For full spares listing, see pages 1193 to 1200.

1 Dynatron Solaris 708

Complete unit for ultrasound, electro, combination, laser & light therapy

The Dynatron Solaris 708 combination therapy unit offers Triple Frequency Ultrasound, 2 & 4 pole interferential with the unique option of Target Interferential, which allows the operator to direct the current to the area required within the electrode placement on the patient, giving a more precise treatment & better outcome. The unit also allows for laser & light therapy. This makes the Solaris 708 an extremely competitive and all round therapy unit.

Ultrasound

- Patented multi-frequency Ultrasound 1, 2, 3MHz
- Duty cycles: 10%, 20%, 50%, continuous
- Additional soundheads available: 2cm², 10cm²
- Ultrasound settings: up to 2 watts/cm²
- Display both in watts and watts/cm²
- Head warming
- Coupling

Electrotherapy

- 3 channels
- 1 High Volt channel
- Interferential, Premodulated, Russian, Biphasic, High Volt, Microcurrent, Direct Current (probe only)
- Target and Target Sweep feature for Interferential
- Modifiable frequency ranges
- Single, reciprocal, co-contraction modes in Russian, Biphasic
- Selectable and customisable on/off times for High Volt, Biphasic and Russian
- Modify pulse rate, pulse width in Biphasic, Russian
- Microcurrent and High Volt therapy delivered with either electrodes or probes
- Select Microcurrent and High Volt polarity (positive, negative, or bipolar)
- Microcurrent conductance indicator
- Electrode conductance meter
- Direct Current delivered through MultiStim probe

Light Therapy

- Infrared cluster probe (optional)
- Laser point probe (optional)

PLEASE NOTE that laser probes are not supplied with the unit - these must be purchased separately.

Standard Accessories

- 5cm² ultrasound head
- Ultrasound gel
- Mains lead
- 2 x Velcro straps
- 2 x patient leads
- 4 x rubber electrodes
- 4 x sponge discs
- Operating manual
- Treatment guide

S4400 Dynatron Solaris 708

Optional Accessories

S4406 2cm² 1 & 3MHz treatment head
S4407 10cm² 1 & 3MHz treatment head
S4408 1 x 875nm Laser / 3 x 660nm LED probe (625mW)
S4409 36 LED diode cluster probe (900mW max)

Technical Specification	
Ultrasound	
Frequency	1, 2 & 3Mhz on all treatment heads
Treatment heads	5cm², optional 2cm² and 10cm²
Output modes	Continuous and pulsed - 50%, 20% and 10%
Output power	0 - 2.0W/cm²
Timer	0 - 99 minutes
Electrotherapy	
Carrier Frequency	4000Hz
Output Selection	2 & 4 pole
Frequency range	0 - 150Hz
Output current	0 - 100mA
Timer	0 - 99 minutes
Other Waveforms	High voltage, Microcurrent, Russian, Biphasic
Laser / Light therapy - Choice of Probe or Cluster	
Probe	1 x 875nm Laser 3 x 660nm LED
Combined output	625mW
Output mode	Continuous
Cluster	32 x 800nm LED 4 x 660nm LED
Combined output	900mW (Max)
Output mode	Continuous, 90%, 50%, 10%
General	
Weight	5.9kg
Dimensions	Width 36cm. Depth 32cm. Height 12cm.
Power Requirements	220 - 240V 50 - 60Hz
Warranty (Unit)	2 years

DELIVERY
Delivery is approximately 3 to 4 weeks. Please contact Customer Services for more information.

SPARES
Spares are available for these products, making them suitable for refurbishment. For full spares listing, see pages 1193 to 1200.

1

1 Dynatron D150 Dual Frequency Ultrasound

A very competitively priced Dual Frequency Ultrasound, small and portable with a range of variables. Including 3 pulsed & continuous outputs, full digital control of time, output and pause treatment facility.

Features

- Patented multi-frequency Ultrasound 1, and 3MHz
- Duty cycles: 10%, 20%, 50%, continuous
- Only 1.5kg!

Standard Accessories

- 5cm² ultrasound head
- Ultrasound gel
- Mains lead
- Operating Manual

Technical Specification	
Frequency	1 & 3MHz on all treatment heads
Treatment heads	5cm², optional 2cm² and 10cm²
Output modes	Continuous and pulsed - 50%, 20% and 10%
Output power	0 - 1.6W/cm²
Timer	0 - 99 minutes
Weight	1.5kg
Dimensions	Width 22cm. Depth 20cm. Height 9cm.
Power Requirements	220 - 240V 50 - 60Hz
Warranty (Unit)	2 years

S4402 Dynatron D150

Optional Accessories

S4403 2cm² 1 & 3MHz treatment head
S4404 10cm² 1 & 3MHz treatment head
S0411 Hard carry case with foam inserts
S0535 Padded carry case

2

2 Kinetec Sonomed V Ultrasound Therapy Unit

This lightweight mains powered Dual Frequency Ultrasound unit provides Ultrasound Therapy at 1 and 3MHz, with continuous or a choice of pulsed modes, Digital and built in pre-set protocols.

Features

- 1 and 3MHz treatment head
- Continuous and 3 pulsed settings
- Wide range of commonly used Protocols preset.
- 10+ Programmable memory positions

Standard Accessories

- 5cm² ultrasound head
- Ultrasound gel
- Mains lead
- Operating Manual

Technical Specification	
Frequency	1 & 3MHz
Treatment heads	1 x Large
Output modes	Continuous and pulsed - 50%, 20% and 10%
Output power	0 - 2W/cm² (Cont) or 0 - 3W/cm² (Pulsed)
Timer	0 - 20 minutes
Weight	1.5kg
Dimensions	Width 30cm. Depth 20cm. Height 11cm.
Power Requirements	100 - 240V 50 - 60Hz
Warranty (Unit)	1 year

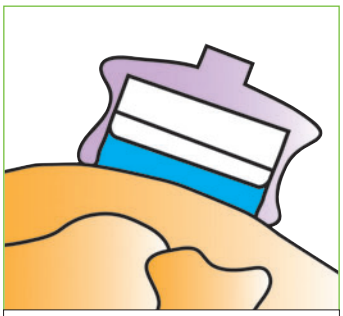
09 131 2040 Sonomed Ultrasound Therapy Unit

Optional Accessories

S0411 Hard Carry Case with Foam Inserts
S0535 Padded Carry Case

DELIVERY
Delivery is approximately 3 to 4 weeks. Please contact Customer Services for more information.

SPARES
Spares are available for these products, making them suitable for refurbishment. For full spares listing, see pages 1193 to 1200.



CONTACT SURFACE FOR THE STATUS™ APPLICATOR AND THE SPECIAL GEL PAD

NEW

ENRAF NONIUS

1 Sonopuls StatUS™ 692S

Complete unit for Stationary and Dynamic Ultrasound, Electro and Combination Therapy

HANDSFREE ULTRASOUND!

StatUS™ stands for **Stat**ionary **U**ltra **S**ound and is Enraf-Nonius' revolutionary new technique

An effective ultrasound treatment session traditionally consists of an application lasting several minutes, whereby the treatment head is moved over the area. This dynamic approach is necessary due to possible cavitation and hotspots that can occur in the tissue.

Thanks to the intensity modulation of StatUS™, cavitation and hotspots no longer occur! Keeping the ultrasound head in one place gives stimulation precisely where it is required. As there's no need to hold the head in place it saves you valuable time!

How does it work?

StatUS™ differs from traditional ultrasound treatment in terms of two patented forms of modulation:

- Duty cycle modulation
- Amplitude modulation

These forms of modulation ensure intensity peaks are diminished, that the chance of cavitation is reduced and that formation of hotspots is counteracted.

How is it applied?

The StatUS™ applicator fixes to the body by means of the vacuum head piece. The therapist determines the pressure with which the StatUS™ applicator is fixed. A special gel pad ensures good transference of ultrasound energy. The gel pad is held in place with a fixing ring. The vacuum pressure creates a perfect seal between the body, the gel pad and the treatment head.

With the StatUS™ you can work faster, more specifically and efficiently with increased comfort for you and your patient.

StatUS™ . . . taking Ultrasound to a new level

Standard accessories

- StatUS applicator (treatment head for StatUS)
- Gelpad StatUS (strip of 6 pcs)
- Fixation ring for gel pad StatUS (set of 3)
- Mains cable
- Screwdriver 6-series

022149 Sonopuls StatUS™ 692S

09 131 2024 Sonopuls StatUS™ 692VS with vacuum

Optional Accessories

022079 Extra Gel Pads Pack of 48

Technical Specification	
Current channels	2, independent, fully galvanically isolated
Current types	16 current types-36 variants
Ultrasound	1 and 3MHz, continuous and pulsed
Pulse frequency	16, 48, 100Hz
Duty cycle	5, 10, 20, 50, 80% (pulsed) 100% (continuous)
Number of US connections	2
Intensity	0 - 2 W/cm^2 continuous, 0 - 3 W/cm^2 pulsed
Programmable positions	unlimited
Pre-programmed programmes	60 items
Supply voltage	100 - 240 V ± 10% (50/60 Hz)
Dimensions	45 x 37 x 29.5cm (W x D x H)
Weight	6.2kg

DELIVERY
Delivery is approximately 3 to 4 weeks. Please contact Customer Services for more information.

SPARES
Spares are available for these products, making them suitable for refurbishment. For full spares listing, see pages 1193 to 1200.

ENRAF NONIUS

1 Sonopuls 190 Single Frquency Ultrasound

This portable mains powered unit provides ultrasound therapy at 1MHz.

Features

- 1 MHz treatment head with contact control
- Continuous and pulsed ultrasound
- 9 pre-programmed Protocols

Standard Accessories

- 1MHz 5cm² ultrasound head
- Utrasound gel
- Mains lead
- Power supply
- Operating manual

014819 Sonopuls 190

2 Sonopuls 490 Dual Frequency Ultrasound

This portable mains powered unit provides ultrasound therapy at 1MHz and 3MHz.

Features

- 1 and 3 MHz treatment head with contact control
- Continuous and pulsed ultrasound
- 9 pre-programmed Protocols
- 10 programmable memory positions
- Optional rechargeable battery

Standard Accessories

- 1 & 3MHz 5cm² ultrasound head superscript
- Ultrasound gel
- Mains lead
- Power supply
- Operating manual
- Treatment guide with photographs

014815 Sonopuls 490

Optional Accessories

S1514 Enraf Sonopuls 490 / 492 Battery pack
022094 Trolley for Enraf 4 Series with trays
09 131 2016 Mobile Pro Padded Carry Bag

Technical Specification	
Ultrasound Frequency	1MHz
Treatment head	5cm²
Output modes	Continuous and pulsed- 80%, 50%, 20%, 10% ,5%
Output power	0 - 3W per cm²
Timer	0 - 30 minutes
Weight	1.7kg
Dimensions	Width 22cm, Depth 19.5cm, Height 22cm
Power requirements	100 - 240V 50 - 60Hz
Warranty (Unit)	2 years

Technical Specification	
Ultrasound Frequency	1MHz and 3MHz on all treatment heads
Treatment heads	5cm² and 1cm²
Output modes	Continuous and pulsed- 50%, 20%, 10% ,5%
Output power	0 - 2W per cm² (Cont) or 0 - 3W per cm² (pulsed)
Timer	0 - 30 minutes
Weight	4kg
Dimensions	Width 28cm, Depth 29cm, Height 10.5cm
Power requirements	100 - 240V 50 - 60Hz
Warranty (Unit)	2 years

DELIVERY
Delivery is approximately 3 to 4 weeks. Please contact Customer Services for more information.

SPARES
Spares are available for these products, making them suitable for refurbishment. For full spares listing, see pages 1193 to 1200.

1 Ultima Portable 2/4 Pole IFT Unit

A portable interferential unit, capable of operation in 2-pole bipolar or traditional 4-pole modes.

Features

- Easy to use, with full range of adjustments
- 2 channels of 2 pole or 1 channel of 4 pole operation
- 6 preset treatment programmes
- Easy to read digital display
- Rechargeable NiMH battery with up to 3 hours operation
- Small and light
- Belt clip

Standard Accessories

The unit is supplied with charger, leads, electrodes, carry case and instructions.

S2350 Ultima Portable IFT Unit

Optional Accessories

S2351 Replacement lead for Ultima

Technical Specification	
Range	2 - 160 Hz
Carrier wave	4000 Hz
Peak-to-peak current	66mA
Waveform	True sinusoidal
Treatment times	15, 30, 45 or 60 minutes with auto shut off
Dimensions	11.5 x 6.6 x 4.5cm.
Weight	258g

SPARES
Spares are available for these products, making them suitable for refurbishment.
For full spares listing, see pages 1193 to 1200.

1

2

1 Endomed 182

The Endomed 182 is a complete unit for pain management with interference, pre-modulated and TENS currents.

Features

- Two pole interference, available over two channels
- Tetrapolar interference
- Isoplanar interference
- Asymmetrical biphasic pulsed current (TENS)
- Burst TENS
- 30 pre-programmed treatment suggestions, adjustable and rewriteable.
- Personalised programs
- Large, crystal clear parameter displays

Standard Accessories

- Rubber electrodes 6x8cm (pk 2)
- Moist pads for rubber electrodes 6x8cm (pk 4)
- 1m & 2.5m (3cm width) straps
- Net adapter
- Cable adapter
- Patient cable
- Mains cable
- Operating manual

014808 Endomed 182

Technical Specification	
Mains voltage	100 - 240 Volt ± 10% (50/60Hz)
Output	15VDC 13, 4A
Dimensions	22 x 20 x 20cm (W x D x H)
Weight	1.8 kg

2 EN Stim 4

4-Channel unit for electrotherapy

This unit has 4 independent channels for muscle stimulation and pain control using TENS currents.

The independent channels make it possible to treat major muscle groups simultaneously or perform bilateral treatments at the same time. This also means that this equipment is perfectly suited for sport and rehabilitation.

Features

- Optimum control via the graphic, illuminated LCD
- Independent current channels
- Detachable footrest
- Many therapy possibilities
- TENS currents

Standard accessories

- Patient cable 2-core & 2 mm male plugs – black, purple, grey & light grey
- Rubber electrodes 6x8 cm, 2 mm female (pk 2)
- Moist pads for rubber electrode 6x8 cm (pk 4)
- 1m & 2.5m (3cm width) straps
- Electrodes 5x9 cm, 2 mm female (pk 8)
- Adaptor cable
- Mains cable
- Operating manual
- Protocols

015047 EN Stim 4

Technical Specification	
Phase duration	10 - 1000µs
Pulse frequency	1 - 200Hz
Frequency modulation	0 - 180Hz
Pre-programmed protocols	39
Programmable positions	100, single and sequential programs
Type adapter	ENA-1524
Mains voltage	100 - 240 Volt ± 10% (50/60Hz)
Dimensions	22 x 20 x 20cm (W x D x H)
Weight	1.8kg

DELIVERY
Delivery is approximately 3 to 4 weeks. Please contact Customer Services for more information.

SPARES
Spares are available for these products, making them suitable for refurbishment. For full spares listing, see pages 1193 to 1200.

1 Endomed 482

In the field of electrotherapy and diagnostics, the Endomed 482 can do just about everything. As many as 18 currents can be selected and delivered via its two-channels. It has isoplanar interference, unlike classical interference, which ensures modulation depth between the four electrodes is 100% at all points. This makes the placement of electrodes on the tissues less critical and also simplifies the use of a 4-pole application.

As with all Enraf-Nonius units, you can be assured of high quality and effectiveness with the Endomed 482.

Features

- 18 current wave forms (low & medium frequency currents including Interferential, Russian stimulation, TENS, Rectangular- and triangular pulsed current, Iontophoresis, 2-5 Current, Diadynamic currents)
- Variable carrier frequencies of 2, 4 or 10kHz at bi-polar interferential
- Pre-programmed simple protocols
- Pre-programmed sequential protocols
- Pre-programmed treatment protocols enlarged with two channel applications
- 10 free programmable memory positions for simple protocols
- 10 free programmable memory positions for sequential protocols of 10 steps
- Classical tetrapolar and isoplanar interference with or without dipole vector
- Adjustable intensity per channel
- Can be used with Vacotron 460 and Vacotron S
- Battery option

Standard Accessories

- Patient cable 2-core & 2 mm male plugs - black, plus cable adapter
- Patient cable 2-core & 2 mm male plugs - purple
- Rubber electrodes 6x8 cm, 2 mm female (pk2)
- Moist pads for rubber electrode 6x8 cm (pk4)
- 1m & 2.5m (3cm width) straps
- Adapter
- Mains cable
- Operating manual
- Protocol Book

015072 Endomed 482

Optional accessories

S1514 Battery pack

022094 Trolley for Enraf 4 Series with trays

Technical Specification	
Current channels	2, independent
Type mains adapter	ENA-1550
Mains voltage	100 - 240 V ± 10% (50/60 Hz)
Output voltage	15 V
Max. output current	3,3 A
Dimensions	29 x 28 x 11cm (W x D x H)
Weight	4kg

2 Endomed 682 & 682V (with vacuum)

Complete equipment for electrotherapy

The Endomed 682 is a versatile and highly advanced piece of equipment for electrotherapy. With its 2 channels, 16 current types and their wide range of settings it is highly effective in pain reduction, the restoration of tissue and the stimulation of muscles and nerve cells.

Its new design features include a colour LCD screen and finger tip control, making the machine easy to use and allows quick call up of the pre-programmed protocols.

Features

- 16 current waveforms
- Therapy Assistant (Pre-programmed protocols)
- Therapy Wizard (Customisable programmes)
- Colour LCD screen
- Finger tip control
- Vacuum option

Standard Accessories

- Patient cable 2-core & 2 mm male plugs - purple, black
- Rubber electrodes 6x8 cm, 2 mm female (Pack of 2)
- Moist pads for rubber electrode 6x8 cm (Pack of 4)
- 1m & 2.5m (3cm width) straps
- Mains cable 230V

017100 Endomed 682

017101 Endomed 682V with vacuum

Technical Specification	
Current channels	2, independent, fully galvanically isolated
Current types	16 current types - 36 variants
Programmable positions	unlimited
Pre-programmed programmes	60 items
Number of vacuum electrode connections	4
Supply voltage	100 - 240 V ± 10% (50/60 Hz)
Dimensions	39 x 37 x 24cm (W x D x H)
Weight	6.2kg

SPARES
Spares are available for these products, making them suitable for refurbishment.
For full spares listing, see pages 1193 to 1200.

1 NeuroTrac Sports

This new digital muscle stimulator offers accurate settings, with 15 preset programs and 3 customised programs. It is the ideal unit for quality muscle stimulation.

Features

- 15 preset programs
- 3 user selectable programs
- LCD display

Standard Accessories

- Digital Muscle Stimulator
- Self adhesive electrodes
- Battery
- Leads
- Manual
- Carry case

S0650

Technical Specification	
Output selection	2 Channel
Output modes	Synchronous and alternate
Stim ON time	2 - 60 seconds
Stim OFF time	2 - 60 seconds
On ramp	0.1 - 9.9 seconds
Programs	15 preset, 3 customised
Pulse rate/freq	Variable 2 - 100Hz
Pulse width	50 - 450 microseconds
Output	0-90mA
Timer	1 - 180 minutes
Battery	1 x 9 volt battery (alkaline)
Dimensions	Width 6.3cm, depth 3cm, height 10.5cm
Weight	72g excluding battery
Warranty	2 years - unit only

2 NeuroTrac Sports XL

8 Pad Digital Muscle Stimulator

An exciting new product that offers 8 electrodes operated from 2 separate channels to give greater control over muscle stimulation and the ability to stimulate larger areas.

Features

- Can use up to 8 Electrodes
- Alternating & synchronous stimulation between channels A & B
- 21 preset programmes
- 3 user customisable programmes
- Lock mode function for measuring home compliance

Standard Accessories

- 4 patient cables, 8 rubber electrodes
- 8 self-adhesives electrodes
- Tape
- Ultrasound gel
- Battery
- Operating manual

S1064

Technical Specification	
Output selection	2 Channel
Frequency range	2 - 100Hz
Pulse width	50μS to 330μS
Output current	0 - 90 mA into 500 ohms
Timer	1 - 90 minutes
Waveform mode	Symmetrical, rectangular bi-phasic with zero DC current
Ramp up time	0.1 - 9.9 seconds
Weight	0.18kg
Dimensions	Width 6.9cm, depth 2.9cm, height 13.4cm
Power requirements	9 volt PP3 Alkaline or Nickel Metal Hydride rechargeable
Warranty	2 years - unit only

INFORMATION
See page 503 for Pericalm, the Pelvic Floor stimulation unit.

kneehab

1 KNEEHAB® Advanced therapy for Knee injuries

KNEEHAB® is a unique, innovative and clinically proven* garment based Electrical Muscular Stimulation (EMS) device. It has been designed specifically to improve joint stability and treat quadriceps atrophy (thigh muscle wastage) resulting from a wide range of conditions affecting the knee including ligament injury, patella dislocation, fracture, osteoarthritis and stroke.

The use of KNEEHAB® can help avoid or delay surgery and where surgery is required can significantly reduce post operative rehabilitation time.

Features and Benefits of KNEEHAB®

- **Carrier garment with positioning indicators:** Neat & tidy with no unsightly/inconvenient cables. Indicators ensure exact and correct pad placement to ensure optimum results and maximum compliance
- **Large patented anatomically shaped pads:** Maximises recruitment of correct muscle fibres. Ensure load dispersion and comfort
- **Load sensor for increased safety:** Kneehab monitors the quality of the circuit and automatically cuts off the unit if the quality of contact with skin is impaired
- **Compliance monitor:** Access at the touch of a button to see how many times the device has been used, total treatment time and average intensity used
- **Easy to Use:** Once it has been initially set up it is just strapped on the thigh and the unit switched on
- **Pre-op / Post-op Strengthening:** KNEEHAB® can be used both pre and post operatively to limit muscle wastage and speed recovery

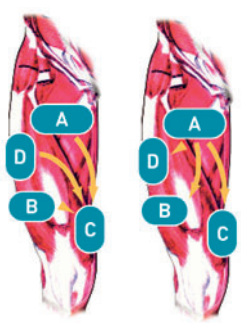
multipath

About Multipath™

KNEEHAB® incorporates Multipath™, a patented breakthrough stimulation technology which enables KNEEHAB® to deliver highly focused, accurately coordinated and comfortable quadriceps contractions.

MULTIPATH® Explained

There are two channels within MULTIPATH®. Channel 1 directly activates the VMO muscle, which is the main stabilizer of the knee. Channel 2 activates the bulk quadriceps muscle which provides a strong, comfortable and highly effective contraction, or activation of the muscle.



Channel 1
A+B+D / C

Channel 2
(Delayed)
Stage 1: A / B+C
Stage 2: A / D

021801R	Right
021801L	Left

Optional Accessories

021802	Kneehab replacement electrodes
021803R	Kneehab replacement garment - Right
021803L	Kneehab replacement garment - Left

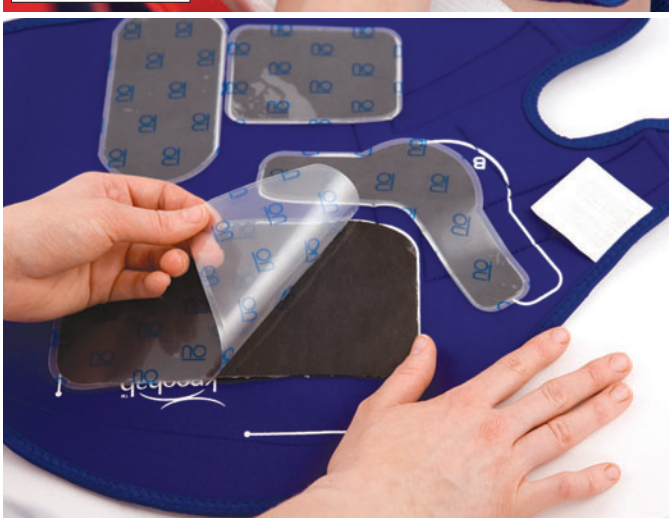
Clinical Proof

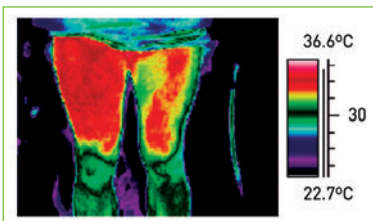
Clinical research has shown EMS technology to be an effective treatment for quadriceps atrophy. Clinical evidence is available.

Programme Table

Size	Freq	Contract sec	Relax sec
1	50Hz	5	10
2	35Hz	5	5
3	50Hz	10	50

*Dr. H.H. Pässler (M.A.) & Dr. Sven Fiel, (M.A.), Centre for Knee and Foot Surgery, Sports Traumatology, ATOS Clinic Centre, Heidelberg, Germany: "The effectiveness of Kneehab in strengthening the quadriceps of patients rehabilitating after anterior cruciate ligament reconstruction", Heidelberg 2006.





KNEEHAB at work

KNEEHAB used on subject's right leg

Conventional EMS used on subject's left leg

4 PAD H-WAVE

6 PAD H-WAVE

1 H-Wave

H-Wave pain relief for:
- Muscular spasm
- Arthritis
- Acute injuries
- Referred pain
- Frozen shoulder
- Whiplash injuries etc

H-Wave combined therapy (2Hz, 16Hz and 60Hz) for:
- Frozen shoulder
- Tennis/golfer's elbow
- Muscle strains
- Back, neck and knee pain
- Achilles tendonitis etc

Standard Accessories

The Human H-Waves are supplied complete with:
- Human operating manual
- Patient leads
- Charger
- Self-adhesive electrodes
- Electro-mist

H-Wave uses a signal that is natural to the human body. It emulates the H waveform found in nerve signals (Hoffman Reflex) and therefore enables greater and deeper penetration of a low frequency current, whilst using significantly less power than other machines.

H-Wave, being natural to the human body, is accepted more readily and so requires less current to stimulate muscle. Furthermore, because of the natural wave-form of the signal, H-Wave allows you to inject 2 or 3 signals of different frequencies and amplitudes simultaneously, unlike most other electrotherapy modalities.

H-Wave used at 60Hz (equivalent to 120Hz TENS mode) acts as an analgesic/anaesthetic. At 2Hz, muscle stimulation is activated, which is the main form of treatment. Muscle stimulation increases blood flow around the injury site promoting healing and also reduces oedema by encouraging drainage of the lymphatic system.

H-Wave has been proved to be very successful in treating most conditions which have been traditionally treated by electrotherapy. However, it is particularly successful in dealing with difficult conditions such as amputation of diabetics whose poor circulation prevents rapid healing.

S0661	6 Pad Human H-Wave
S0660	4 Pad Human H-Wave
S0260	4 Pad VET-Wave with carry bag

There is no difference between the 4 pad Human H-Wave and the 4 pad Vet-Wave. The operation manual for the Vet-Wave is specific to horses, otherwise the electronics and box are exactly the same. The Vet-Wave also comes with a carrying case for field work.

The Vet-Wave is supplied complete with:
- Vet operating manual
- Carry bag
- Patient leads
- Charger
- Self-adhesive electrodes

Technical Specification	
Output selection	4 pad-2 Channel, 6 pad-3 Channel
Frequency range	2 - 60Hz
Max current (1K load)	10mA rms (max. amplitude/max. frequency)
Max voltage (1 k load)	10V rms (max. amplitude/max. frequency)
Timer	1 - 20 minutes or continuous
Waveform mode	Exponential decaying wave form Bipolar
Weight	4 pad - 2kg / 6 pad - 6kg
Dimensions	4 pad - width 18.5cm, depth 18.5cm, height 6.5cm 6 pad - width 29cm, depth 28cm, height 14cm
Power requirements	Battery operated. Approximately 13 V DC (fully charged) re-chargeable battery
Warranty	1 year - unit only

skf services

FOR **SERVICE** AND **REPAIR**

We offer

- **Service Maintenance Contracts**
  Flexible maintenance visits for preventative, safety and performance testing and repair
- **Workshop Service & Repair**
  Full quotations provided
- **Field Service Repair**
  For unscheduled maintenance and repair

Ask about our . . .
Second Hand Equipment, Trade-In Deals and Equipment Hire

Ask yourself

Is your equipment safe to use?

Are you putting patient safety at risk?

Does your equipment deliver the correct dosage?

Please contact Customer Services for more information

InterX® Therapy

A unique combination of Neurostimulation, Massage, Myofascial Release, Therapeutic Exercise and Trigger Point Therapy

What is InterX®?

- Non-invasive Interactive Neurostimulation delivered through fixed electrodes of the handheld portable device
- Used by doctors and therapists for the treatment of acute and chronic pain
- Returns patients to active rehabilitation and full function in optimal time

What is InterX® used for?

Evidence based applications for:

- Post surgical rehabilitation
- Chronic neuropathic pain
- Sports injury rehabilitation
- Chronic musculoskeletal conditions
- Statistical analysis of double blinded, randomised, controlled clinical trials has shown significant results in reduced pain, reduced medication intake, increased range of motion (ROM) and reduced inflammation

How does InterX® work?

InterX delivers interactive, high amplitude, high density stimulation to the cutaneous nerves, activating the body's natural pain relieving mechanisms (segmental and descending inhibition). Research suggests that high amplitude stimulation may also activate autonomic responses and point specificity may activate an anti-inflammatory mechanism mediated by peripheral opioids

How is InterX® therapy applied?

The design and interactive waveform allow the therapist to deliver patient specific treatments and enables an entirely different treatment approach. Treatment can be applied locally, or to the dermatomes, the face and scalp and directly over the spine using the **Scan**, **Target**, **Dynamic** protocols:

SCAN

Identify optimal treatment points (points of low impedance)

TARGET

Deliver focused, high amplitude stimulation to those points

DYNAMIC

Perform range of motion, flexibility and resistance exercise while treating points of pain

What makes InterX® Therapy different from other E-stim devices?

- The ability to scan the skin, identify optimal treatment points and provide high quality targeted treatment exactly where it is needed is unique to this technology
- The parameters of each individual pulse delivered are set by the tissue being treated. These parameters change dynamically in response to the changes in the electrophysiology of the tissue
- Its variable, Interactive Waveform and Short Treatment Protocols discourages the body's natural tendency towards tolerance ensuring InterX® continues to be effective

1 InterX® 5002 Kit

- Specifically designed for the management of chronic and acute pain, as well as rehabilitation from injury.
- Stainless steel fixed concentric electrodes
- Constant current device
- Graphic display with simple selection navigation and selection
- Preset stimulation patterns
- Effective treatment times from 5 to 30 minutes
- Fully portable, battery operated, weighing only 315g
- Minimal set-up time, no skin preparation and no gel needed.
- No calibration required

021765 InterX® 5002

Optional Accessories

A range of accessory electrodes allow for InterX® therapy to be easily applied on small or large areas (small circular, small classic and dome electrodes) areas of dense body hair (comb electrode) as well as providing unattended treatment options (Flexible Array Electrodes). The Soft Tissue electrode can be used for myofascial release techniques and soft tissue work.

021767 Classic Electrode
021768 Small Circular electrode
021769 Comb Electrode
021770 Soft Tissue Electrode
021771 Dome Electrode Kit
021772 4x4 Flexible Array Electrode Kit
021773 3x3 Dual Flexible Array Electrode Kit
021774 Professional Device Holster
021775 Personal Device Pouch
021776 Professional Carry Case
021777 Utility Bag small

2 InterX® 1000 Kit

For personal treatment & management of pain

021766 InterX® 1000

Training programmes are available by interactive web link

Clinical trial data is available, please see www.nrg-unlimited.com for details

Technical Specification		
	InterX® 5002	**InterX® 1000**
Size	220 x 60 x 45mm	215 x 52 x 43mm
Weight	315g	185g
Power source	4AA alkaline batteries	2AA alkaline batteries
Pulse duration	10-500μsec	10-500μsec
Pulse frequency	15-350Hz	15-350Hz
Output voltage	20-450v	20-450v
Output current	2-90mA	2-90mA
Waveform	pulsed, damped biphasic sinusoidal	pulsed, damped biphasic sinusoidal
Warranty	1 year	1 year

COMB ELECTRODE

DOME ELECTRODE

4 x 4 FLEXIBLE ARRAY ELECTRODE

SOFT TISSUE ELECTRODE

1

1 Stabilizer Pressure Bio-Feedback

The Stabilizer designed by physical therapists, is a simple device which registers changing pressure in an air filled pressure cell. The Stabilizer is principally used for exercises that focus on the protection and stabilisation of joints. Research has shown these types of exercises are especially important for the prevention and treatment of low back and neck pain. The Stabilizer is used to monitor and provide feedback on body movement during exercise. 90 days warranty on bag.

S0232

2

2 Peritone EMG Biofeedback Unit

The Peritone is a single channel EMG biofeedback device. It can be used in a variety of applications including patella femoral pain, chronic tension headache, asthma, phantom limb pain, incontinence, lower back pain, RSI, pelvic pain, neck and shoulder pain, spinal conditions to name but a few. Its simple design and ease of use make it excellent for both clinic and home treatments

Features

- Accurate and sensitive - measures activity down to as low as 0.2µv and as high as 2000µv
- LEDs display EMG level clearly and easily
- LCD displays numerical EMG reading and work/rest countdown
- After each session statistics can be reviewed (includes work and rest averages, average onset of muscle contraction and muscle release)
- Lock mode function for recording time in use, statistics and locking the units parameters
- Low cost, high quality and very accurate
- Used with self adhesive electrodes, Periform®+ or Anuform® (not included)
- Optional software available

Standard Accessories

- Patient cable
- Reference cable
- Battery
- User manual
- Stand to hold unit upright during use
- Soft carry case

021848

Additional Accessories

021849 Peritone Software

With the help of optional software Peritone produces and prints comprehensive patient progress reports for all key parameters, such as work/rest averages, onset contractions, muscle release times, peak values and work/rest average deviations

- Microsoft Vista compatible
- New software receives EMG data via the new Fibre Optic to USB adapter

012571 Self Adhesive electrodes 5 x 5cm (pk 4).
For other electrodes see page 479.

021972 Periform®+ Intra vaginal probe

013920 Spare patient cable

Technical Specification	
Range	0.2-2000µv
Sensitivity	0.1µv RMS
Work rest periods	2-99 sec
No of trials	1-99
Unit dimensions	128.5 x 64 x 28.3mm
Weight	0.15kg

SPARES
Spares are available for these products, making them suitable for refurbishment. For full spares listing, see pages 1193 to 1200.

1 CombistimXP® Biofeedback and Muscle Stimulation Unit

CombiStim XP® is the latest device for the treatment of incontinence. Easy to use, flexible and very effective, CombiStim XP® combines the benefits of EMS and EMG in one device. Depending on the patient's specific needs, CombiStim XP® can be used as

- a pure Biofeedback device
- a pure Muscle Stimulator
- a Combined Biofeedback/Muscle Stimulation device which automatically contracts the patient's pelvic floor muscles on achievement of a preset manual contraction target.

CombiStim XP® comes with 7 programmes including an open EMS programme where the clinician can choose and set desired stimulation parameters.

Program	Indication
1	ETS (EMG Triggered Stimulation)
2	EMG and EMS alternating
3	EMG Biofeedback
4	EMS - Stress Incontinence
5	EMS - Urge Incontinence
6	EMS - Mixed Incontinence
7	Open EMS Program

Features

- Single Channel
- 3 treatment options, 7 programmes
- Clear LED display
- Audio and visual biofeedback

019232

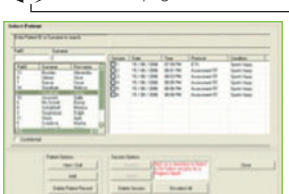
2 CombistimXP® Software

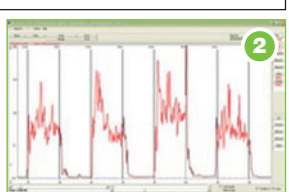
Software Features

- Patient Database
- EMG Work/Rest Assessment
- EMG template Assessment
- ETS Assessment
- Patient Clinical Report
- Patient's home Compliance Report

022023

INFORMATION
For use with Anuform and Periform+.
Please see pages 500 to 501 for details.

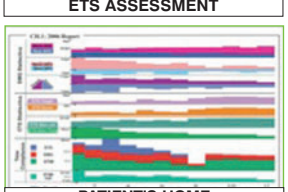

PATIENT'S DATABASE


EMG WORK/REST ASSESSMENT

EMG TEMPLATE ASSESSMENT

ETS ASSESSMENT

PATIENT'S CLINICAL REPORT


PATIENT'S HOME COMPLIANCE REPORT

COMBISTIM PACK

ENRAF NONIUS

Partner for Life

NEW

1 Myomed 632

Clinical unit for EMG biofeedback, Pressure Biofeedback and Electrotherapy

The Myomed 632 has functions for biofeedback, pressure biofeedback and combination with electrotherapy. Several surface or internal electrodes can be connected. This makes the unit extremely suitable for all kinds of exercise and relaxation therapies related to muscle re-education, including pelvic floor re-education.

Features

- **2 Channel EMG**
  Independently operating channels allows 2 EMG signals to be measured at the same time. The feedback is visual and/or auditive.
- **1 Channel Pressure Biofeedback**
  Pressure changes are measured by means of an anal or vaginal pressure probe. These pressure changes are the result of contractions of the pelvic floor muscles. Information to the therapist and patient is presented in the same way as with EMG-feedback.
- **3 different feedback modes**
  - Continuous
  - Work/rest
  - Template
- **Electrotherapy**
  With 16 different current forms, the Myomed 632 is the complete electrotherapy unit
- **EMG Combined with Electrotherapy**
  Active and passive therapy can be fully integrated using EMG with electrotherapy (EMG triggered stimulation). The therapist decides whether EMG and stimulation occurs simultaneously, alternating or based on a pre-set threshold.
- Graphical display and EMG/Pressure analysis feature

This unit can be extended with other functional modules including therapeutic ultrasound and vacuum. Contact us for more details

Standard accessories

- User manual
- EMG Cable
- Cable for reference electrode for EMG
- Dummy plug
- Moist pads for rubber electrode 6 x 8cm, set of 4
- Mains cable 230V
- Rubber electrodes 6 x 8cm, 2mm female, 2 x 2 pc
- Patient cable 2-core & 2mm male plugs - black
- Patient cable 2-core & 2mm male plugs - purple
- Strap 250 x 3cm
- Strap 100 x 3cm

022030 Myomed 632

Optional Accessories

015121	Cable for connecting Periform/Anuform
09 131 1869	EN-Pointer electrode
09 131 1877	Snap-connector, 2mm female, 3 pcs
09 131 1885	Pregelled disposable electrodes, 25 pcs
09 131 1893	Anal pressure sensor
09 131 1901	Vaginal pressure sensor, 6 pcs
09 131 1919	Connecting cable for vaginal pressure probe, incl. air-inlet and syringe
09 131 1927	Connecting cable for anal pressure probe
09 131 1935	Connecting hose for vaginal pressure sensor
09 131 1943	Vaginal pressure sensor CD, 6 pcs
09 131 1950	Ultrasound module for 6-series
09 131 1968	Module for remote LCD display function (Myocombox)

Technical Specification	
EMG-feedback	2 channels, independent
Pressure-feedback	1 channel
Combination EMG/pressure-feedback	1 channel EMG, 1 channel pressure
EMG range	4-10.000 μV and logarithmically
Pressure range	0-360 hPa
Current channels	2, independent, fully galvanically isolated
Current types	16 current types-36 variants
Pre-programmed programmes	60
Number of vacuum electrode connections	4
Supply voltage	100-240 V ± 10% (50/60 Hz)
Dimensions	39 x 37 x 24cm (WxDxH)
Weight	6.2 kg

SPARES
Spares are available for these products, making them suitable for refurbishment.
For full spares listing, see pages 1193 to 1200.

1 Kinetec Portable Low Level Laser System - 670nm / 5mW

This battery powered laser therapy unit is ideal for portable use and clinic use with a unique program system that allows you to select 10 different preset protocols. With an output of 5mW @ 670nm it is ideal for superficial sports injuries and wounds.

Features

- 10 preset protocols
- Continuous and pulsed output
- Uses 2 AA batteries

Standard accessories

This unit is supplied with a control unit, probe, protocol key, operating instructions, treatment guide & hard carry case.

Technical Specification	
Base Unit	Battery operated
Class	3A
Output Modes	Continuous and pulsed
Output Power	5mW
Timer	Linked to protocol
Weight	Base & Probe <400g
Dimensions	Base: Width 6cm, Depth 3cm, Height 14cm Probe: Length 17.5cm, 2.5cm Diameter
Power Requirements	2 x AA Battery
Warranty	Unit 1 Year

09 131 2032 Laser Therapy Unit with 670nm 5mW probe

2 Kinetec Portable Low Level Laser System - 830nm / 160mW

This battery powered laser therapy unit is ideal for portable use & clinic use with a unique program system that allows you to select 10 different preset protocols.

With an output of 160mW @ 830nm it is ideal for musculoskeletal injuries and pain relief etc.

Features

- 10 preset protocols
- Continuous and pulsed output
- Uses 2 AA batteries

Standard accessories

This unit is supplied with a control unit, probe 830nm 160mW , protocol key, operating instructions, treatment guide, hard carry case and 2 pairs of Protective glasses.

Technical Specification	
Base Unit	Battery operated
Class	3B
Output Modes	Continuous and pulsed
Output Power	160mW
Timer	Linked to protocol
Weight	Base & Probe <400g
Dimensions	Base: Width 6cm, Depth 3cm, Height 14cm Probe: Length 17.5cm, 2.5cm Diameter
Power Requirements	2 x AA Battery
Warranty	Unit 1 Year

09 131 2057 Laser Therapy Unit with 830nm 160mW probe

1 Endolaser 422

The Endolaser 422 is an advanced and modern designed unit for laser therapy with interchangeable laser probes. Laser therapy, also known as photobiomodulation, low level laser therapy (LLLT), cold laser therapy, and as laser biostimulation is an effective method for:

- Pain management
- Wound healing
- Soft tissue injury treatment
- Nerve regeneration
- Skin treatment
- Cosmetic regeneration

Laser is applied to the anatomical region of interest by means of a diode probe. This application can be static and very localized or dynamic for larger regions. A general treatment only takes a few minutes.

Features

- 2 channel unit
- Automatically calculates dosage
- Over 80 pre-programmed treatment protocols
- Customisable programmes
- Laser test – allows for easy verification of the laser probe
- Choice of single and cluster probes

Being an Enraf-Nonius product, the Endolaser 422 is of high quality and good design and you can be assured of years of excellent functioning and effectiveness.

Standard Accessories

- Mains cable
- Protective goggles x 2
- Operating manual

017685 Endolaser 422

Optional Accessories

017682 25mW, pulsed single laser diode
017681 100mW, pulsed single laser diode
017680 500mW, continuous single laser diode
017679 400mW, pulsed cluster (4) laser diodes
010118 Replacement Safety goggles
022094 Trolley for Enraf 4 Series with trays

For laser combined with Electrotherapy and Ultrasound see the Dynatron Solaris 708 on page 455.

A 500mW with 1 laser diode 808nm

The 500mw single diode is ideal for the treatment of small surface areas. It features an 808nm wavelength and has a 500mw output.

This laser diode is ideal for muscular skeletal conditions, pain relief and many outpatient laser applications including treating very deep conditions.

B 400mW Clusterprobe with 4 laser diodes

The 400mw cluster diode is ideal for the treatment of larger surface areas. It features a 905nm wavelength and has a 400mw output. This laser diode is ideal for muscular skeletal conditions, pain relief and many outpatient laser applications.

Technical Specification	
Mains voltage	230vac 50-60Hz ± 15% 115 vac 50-60Hz ± 15%
Max power consumption	15VA
Double fuse protection	250mA Rit 5x20mm
Plug for Interlock/safety key (contacts normally closed)	
Programmable treatment time	up to 60mins
Diode laser wavelength for 25,100, 400mW pulsed diode	905nm
Diode laser wavelength for 500mW continuous laser diode	808nm
Laser classification	3B
Max permissible exposure	5032.06J.m-2
Accessible emission limit	77.1mW (class 3B)
Divergence	107mrad
NOHD (Nominal ocular hazard area) direct light	2.89m
NOHD diffused light	0m
IR Radiation sensor for external laser probe	on front panel
Programmable impulse frequency	10-10,000Hz
Duty cycle, (only avail with continuous laser diodes)	10-9900Hz
Independent output channels	2
Pre-programmed protocols	82
Free programmable positions	50
Plastic desktop container dimension (lxhxd)	29 x 28 x 11.5cm
Weight of machine body	3.2kg

SPARES
Spares are available for these products, making them suitable for refurbishment.
For full spares listing, see pages 1193 to 1200.

1 PSW-180 Shortwave Unit

Shortwave therapy operates at approximately 27MHz. At this frequency, electromagnetic energy is converted to thermal energy by the induction of circulating currents in the tissue and dielectric absorption in insulating tissue. Shortwave therapy benefits include the encouragement of healing, pain relief, reduction of muscle spasm and increase in mobility.

This new pulsed shortwave offers a wide range of pulse frequencies and pulse widths and a large range of applicators, rigid or malleable. The malleable electrodes are enclosed within felt making application simple, with straps to secure to joints etc.

Rigid electrodes are supplied as standard with the unit, plus a choice of 2 sized Inductive applicators to offer the widest range of treatments possible.

Features

- Large graphic screen
- 28 memory slots for frequently used treatments
- Fully screened to shield Therapist and other equipment

Standard Accessories

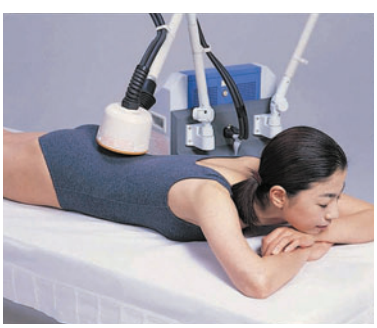
- 2 x Condenser electrodes (135mm)
- Test tube
- Treatment guide
- User manual

S1710 PSW-180 Shortwave Unit

Optional Accessories

S1711 Inductive applicator 70mm
S1712 Inductive applicator 135mm
S1714 Condenser electrode 70mm
S1715 Rubber pad electrodes with built in felt 165 x 165mm (pair)
S1717 Rubber pad electrodes with built in felt 165 x 280mm (pair)
S1719 Induction cable

Technical Specification	
Frequency	27.12MHz
Pulse frequency	25 - 900Hz adjustable 10 steps
Pulse width	0.65 - 15.2ms adjustable 10 steps
Memory programs	28
Gross weight approx	26kgs
Dimensions	835mm(H) X 380(W) X 320(D)mm
Inductive electrodes	70mm and 135mm
Condenser electrodes	70mm and 135mm
Rubber pad electrodes	Medium & large
Power output	5-80 watts



1 Curapuls 670

Pulsed Shortwave

The Curapuls 670 is provided with two outlets so that two electrodes can be used simultaneously. Both outlets have independently adjustable pulse width and peak (average) power. Usually the Curapuls 670 is used a-thermally but thermal effects can also be achieved by long pulse times and high pulse repetition frequencies.

Circuplodes

The 3 advanced induction-electrodes have been developed for the Curapuls 670. They are provided with a Faraday screen that eliminates capacitive effects to give a virtually pure magnetic field. This means no energy is absorbed in superficial fatty tissues, so optimum treatments of deeper-lying tissues is obtained. This is in contrast to conventional inductive electrodes, in which the transfer of energy is limited by the capacitive currents in superficial fatty tissues.

- Circuplode Ø 9 cm; for the treatment of small body parts such as wrist and ankle joints
- Circuplode Ø 14 cm; for the treatment of lager body parts such as hip and shoulder joints
- Circuplode-E; for the treatment of large body parts such as knee joints and oblong muscles. The Circuplode-E can generate a frequency of 800 Hz. Ideal for thermal treatment.

The Curapuls 670 has a Power Indicator. If there is insufficient or no loss on a Circuplode, the unit senses this. The power is automatically reduced to a very low level until the load condition is corrected. This feature controls the energy transfer to the patient. Another unique feature is that the actual transferred power is displayed.

Features

- Adjustable peak power (maximum 200 Watt)
- Adjustable pulse width and frequency
- Conveniently arranged display – user friendly & functional
- 50 Pre-programmed treatment suggestions
- 25 Free programmable memory positions
- Special induction-electrodes
- Power indicator
- Actual power transfer indicator
- Adjustable electrode arms

Standard Accessories

- Electrode arm white for Curapuls 670 & 970
- Cable clamp
- Circuplode Ø 140 mm, 670
- Induction electrode for the treatment of lager body parts such as hip and shoulder joints
- Mains cable 230V
- Operating manual

014807 Curapuls 670

Optional Accessories

015000 Circuplode Ø 9 cm, 670
015060 Circuplode-E, 670
015420 Fixed height wooden couch, lifting back

Technical Specification	
Frequency	27.12 MHz (± 0.6%)
Channels	2
Pulse power	0-200 W (± 20%) into 50 ohm
Average power	0-64 W (± 20%) into 50 ohm
Treatment time	0-30 minutes
Mains voltage	110-120 V ± 10% (50/60 Hz)
Power consumption	max 1.6 A (230 V)
Dimensions	39x40x93 cm (WxDxH)
Weight (unit)	45 kg (excluding arm)
Electrode arm	2.5 kg

SPARES
Spares are available for these products, making them suitable for refurbishment. For full spares listing, see pages 1193 to 1200.

1 Curapuls 970

Continuous & Pulsed Shortwave

The continuously adjustable intensity and the output of 400 Watt provides optimum application possibilities. Continuous shortwave therapy increases the circulation and stimulates the metabolism. The pulsed peak power can be set to a maximum of 1000 Watts. The related average power is, however, much lower. Biological processes which should not be heat-treated, can therefore be treated a-thermally.

Pulsed mode effects

Besides the well known effects of heat therapy with continuous radiation, the unit's pulsed mode will stimulate wound healing, oedema- and haematoma absorption, pain reduction and stimulation of the peripheral circulation.

Electrodes

An electrical field can be created with the disc electrodes or the rubber electrodes. There is a wide range of capacitive electrodes, dependent on the body part to be treated. A magnetic field can be created with the Circuplode or with the Flexiplode.

Flexiplode

This induction electrode is well suited to treatment of deeper lying tissues. Its treatment planes can be adjusted to fit the body part. Its large surface totalling 412x225mm allows for larger body parts to be treated in one application.

Features

- Conveniently arranged display – user friendly & functional
- Wide range of disc & flexible rubber electrodes
- 4 large castors, 2 lockable – easy to move and immobilise
- Adjustable electrode arms

Standard Accessories

- 2 Electrode arms, white for Curapuls 670 & 970
- 2 Electrode cables
- 2 Cable clamps
- Disc electrode Ø 130 mm
- Neon check light
- Operating manual

014809 Curapuls 970

Optional Accessories

015058 Two way plug for multi-electrode technique
015036 Electrode arm (white)
017457 Electrode cable for 970
015029 Neon check light
015035 Cable clamp
015420 Fixed height wooden couch, lifting back

Electrodes

015028 Circuplode Ø 140mm for 970
015001 Flexiplode for 970
015046 Disc electrode Ø 42mm for 970
015002 Disc electrode Ø 85mm for 970
015061 Disc electrode Ø 130mm for 970
015076 Flexible rubber electrode 9.5x10cm for 970
015077 Flexible rubber electrode 12x12cm for 970
015078 Flexible rubber electrode 15x25cm for 970

Felt Spacers

015083 10.5x5cm for Flexible rubber electrode 9.5x10cm
015082 13x17cm for Flexible rubber electrode 12x12cm
015081 16x30cm for Flexible rubber electrode 15x25cm

Technical Specification	
Generator frequency	27.12 MHz, ± 0.6%
Output power: Continous HF	max 400W
Output power: Pulsed HF	max 1000W (peak)
Pulse duration	ca. 400 µs
Pulse repetition frequency	15-200 Hz adjustable in 10 steps
Mains supply	220-240 V / 50 Hz
Mains voltage variation	max. ± 10%
Current consumption	max. 6 A (at 230 V)
Dimensions	56x43x92.5 cm (WxDxH, without arms)
Length electrode arms	93 cm
Weight	ca. 80 kg

SPARES
Spares are available for these products, making them suitable for refurbishment. For full spares listing, see pages 1193 to 1200.

PiezoWave

PiezoWave Shockwave therapy

The new, highly efficient, non-surgical treatment of chronic pain in the musculoskeletal system

The PiezoWave combines extracorporeal shock wave therapy (ESWT) applications with trigger point shock wave therapy (TPST) applications. Extracorporeal shock waves have been used successfully in the treatment of chronic pain since the early '90s. The PiezoWave offers a significant expansion of the range of applications for myofascial pain syndrome. The extracorporeal, focused shock wave allows precise diagnosis and therapy of active and latent trigger points. Trigger points are thickened, pain-sensitive points within a usually tense muscle. They can cause a variety of pains – even well away from their own location.

How does extracorporeal shock wave therapy work?

The Piezowave generates sound waves with high energy (extracorporeal) based on the piezoelectric principle. These waves are passed into the body through gel filled cushions. The patient feels the short pulses and helps the clinician to direct the shock waves to the point where the most pain is felt. Treatment is gentle and takes up to 15 minutes. Approximately 3 treatments are necessary at intervals of 1 to 2 weeks.

018836 Shockwave Unit

Focused Extracorporeal Shockwave Therapy - ESWT

Applications

The Piezowave ESWT unit is used to treat chronic pain particularly in the transitional regions between tendons and bone and in muscle attachments in:

- Radial/ulnar epicondylitis
- Patellar tendinopathy
- Plantar fascilitis with or without heal spurs
- Tendinosis calcarea (shoulder)
- Adhesive capsulitis (frozen shoulder)
- Pseudoarthrosis

Advantages in ESWT

- High, clearly defined penetration depth
- Highly accurate treatment
- Maximum energy directly in the treatment area
- Low risk of haematoma
- Practically no skin irritation
- Small design, portable, compact unit
- Practically maintenance free

Trigger Point Shock Wave Therapy – TPST

Applications

The extracorporeal, focused shock wave allows both the therapy and the precise localisation of active and latent trigger points. The trigger is excited by the small focus point of the PiezoWave. This allows precise localisation without palpation that is often painful for the patient.

TPST is used to treat chronic pain particularly in transitional regions between tendons and bone and in muscle attachments in the:

- Neck
- Shoulder
- Back
- Buttock
- Knee

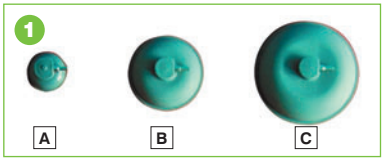
Advantages in TPST

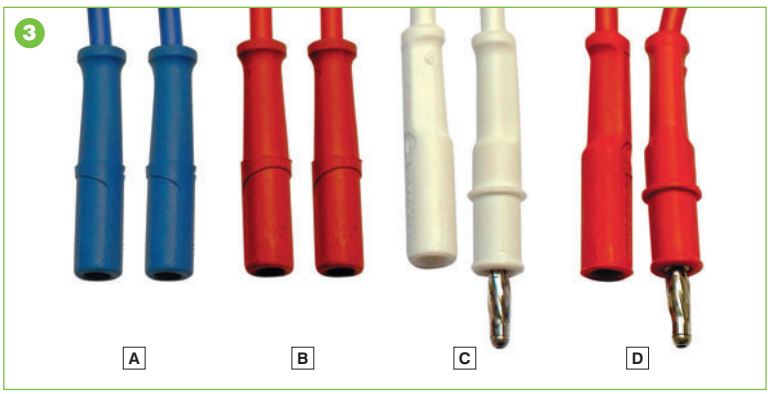
- Mobile and focused ESWT system
- Deep penetration up to 40mm
- Treatment with a pulse frequency up to 8Hz
- Precise localisation of trigger points
- Low risk haematoma
- Broad range of applications
- Individual therapy options
- Long working life – extremely economical

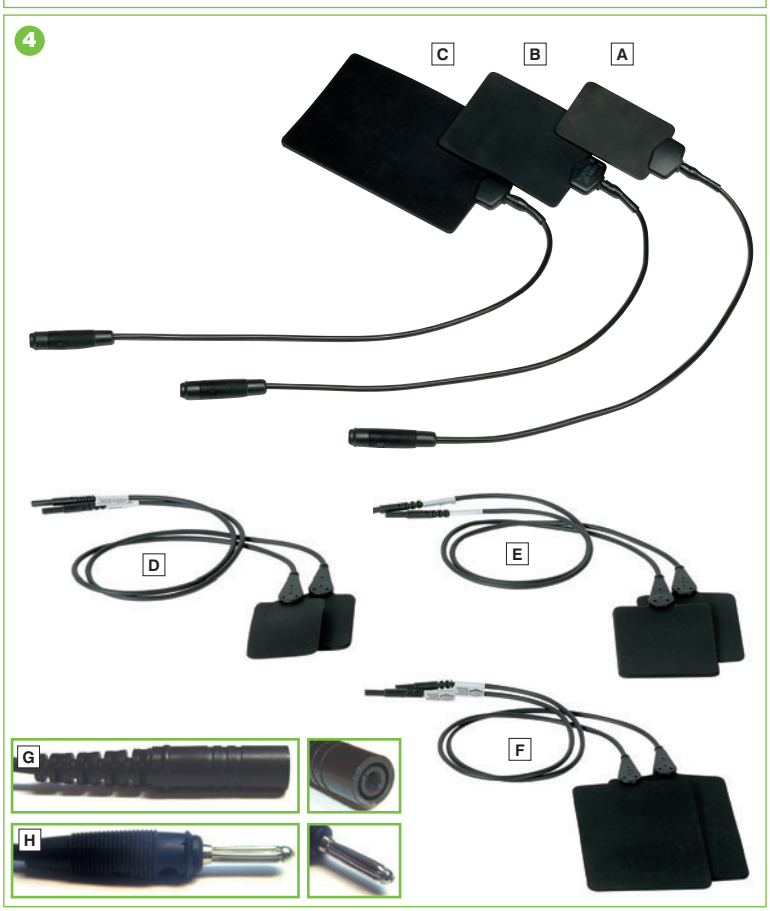
Combined advantages of ESWT & TPST

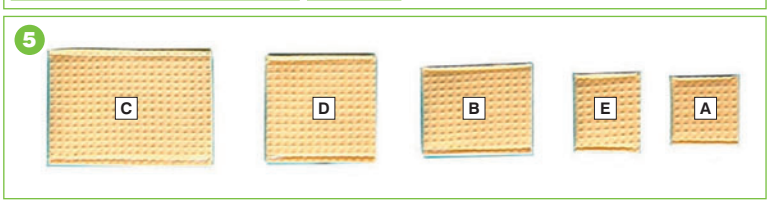
- Wide range of applications
- Outpatient treatment is fast and gentle
- Only 1 to 3 sessions necessary
- Fast alleviation of pain
- Success in alleviating or eliminating pain has been documented in up to 85% of cases

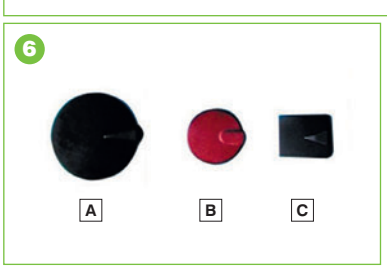
Research and studies relating to the effectiveness of treatments are available.











1 Vacuum Electrodes

220271	A	30mm side entry suction cup small
S0084	B	65mm side entry suction cup medium
S0083	C	95mm side entry suction cup large

2 Vacuum Sponges

220275	A	28mm dia for 30mm suction cup
220045	B	58mm dia for 65mm suction cup
220046	C	77mm dia for 95mm suction cup
S0089		87mm dia for 95mm top entry suction cup

3 Suction Leads

S0524	A	(Blue/blue end) 4mm socket
S0525	B	(red/red end) 4mm socket
220035	C	4mm plug / 4mm socket white
220229	D	4mm plug / 4mm socket red

4 Flexible Conductive Rubber Electrodes

Enraf Range

015020	A	4 x 6cm, 4mm female, set of 2
014838	B	6 x 8cm, 4mm female, set of 2
014991	C	8 x 12cm, 4mm female, set of 2
015016	D	4 x 6cm, 2mm female, set of 2
015015	E	6 x 8cm, 2mm female, set of 2
014992	F	8 x 12cm, 2mm female, set of 2

Universal Range 4mm shrouded female socket electrode

S0438	G	4 x 6cm (black)
S0440		6 x 8cm (black)
S0442		8 x 12cm (black)
S0439		4 x 6cm (red)
S0441		6 x 8cm (red)
S0443		8 x 12cm (red)

Universal Range 4mm plug electrode

S3100	H	4 x 6cm (black)
S3101		6 x 8cm (black)
S3102		8 x 12cm (black)
S3103		4 x 6cm (red)
S3104		6 x 8cm (red)
S3105		8 x 12cm (red)

5 Rubber Electrode Sponge Covers

S0095	A	Glove sponge for 4 x 6cm electrodes
S0094	B	Glove sponge for 6 x 8cm electrodes
S0093	C	Glove sponge for 8 x 12cm electrodes
S0370	D	Glove sponge for 3" (77mm) electrodes
S0371	E	Glove sponge for 2" (50mm) electrodes

6 Mobile Electrodes

A range of mobile electrodes that are insulated on one side so therefore can be moved during treatment to obtain the best position for treatment and for scanning over muscle.

S0067	A	3" (77mm) round black, 2mm socket
S0068		3" (77mm) round red, 2mm socket
S0069	B	2" (50mm) round black, 2mm socket
S0070		2" (50mm) round red, 2mm socket
S0071	C	4x5cm black, 2mm socket

7 Dynatronics Patient leads - for 850 & Solaris

S4410	Patient lead red
S4411	Patient lead black

1 Internal Electrodes: Periform+

09 120 3231

2 Internal Electrodes: Anuform

Intra-anal probe. Revolutionary shape allows for more comfortable stimulation and improved biofeedback. Also approved for vaginal use.

09 120 3249

3 Adaptors

For converting lead wires to accept different sized electrodes & self adhesive electrodes

015073 A 2mm female to 4mm male Adaptor, black
015074 2mm female to 4mm male Adaptor, red

S0080 B 4mm to 2mm Adaptor

4 Velcro Straps

These Straps are ideal for use on electrotherapy electrodes, ice packs and hot packs. They are manufactured from washable elasticated material with self-fastening velcro hooks.

S0096 Velcro Strap 7.5 x 50cm
220051 Velcro Strap 7.5 x 90cm
S0098 Velcro Strap 7.5 x 120cm
S0099 Velcro Strap 10 x 50cm
220054 Velcro Strap 10 x 90cm
S0101 Velcro Strap 10 x 120cm

5 Nylatex® Straps

Nylatex® wraps are made from a stretchable, laminated loop material that is ideal for holding electrodes in place, ensuring good contact. Pack of 3.

2945 6 x 61cm
294501 6 x 45cm
294502 6 x 91cm
294503 6 x 122cm
294504 10 x 45cm
294505 10 x 91cm
294506 10 x 122cm
294507 15 x 45cm
294508 15 x 91cm
294509 15 x 122cm
294510 Assorted pack of 8, includes one of each size except 6 x 61cm

6 Self Adhesive Electrodes

Suitable for all TENS, STIM, FES and EMG applications

- Reusable, comfortable and long lasting
- Offers optimal conductivity and adherence to the skin
- Low allergy gel reduces skin irritation
- Current disperses evenly across the electrode eliminating hot spots
- New carbon wire construction reduces interference for EMG applications

012574 A 30mm Dia. Round (Pack of 4)
012575 50mm Dia. Round (Pack of 4)

012572 B 50 x 90mm (Pack of 4)
221958 50 x 100mm (Pack of 4)

012571 C 50 x 50mm (Pack of 4)

7 Durastick II Electrodes

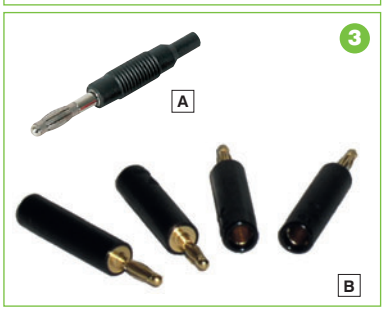
Highest quality range of flexible yet strong self-adhesive electrodes with a unique silver printed conductor. They are easy to remove and extremely durable.

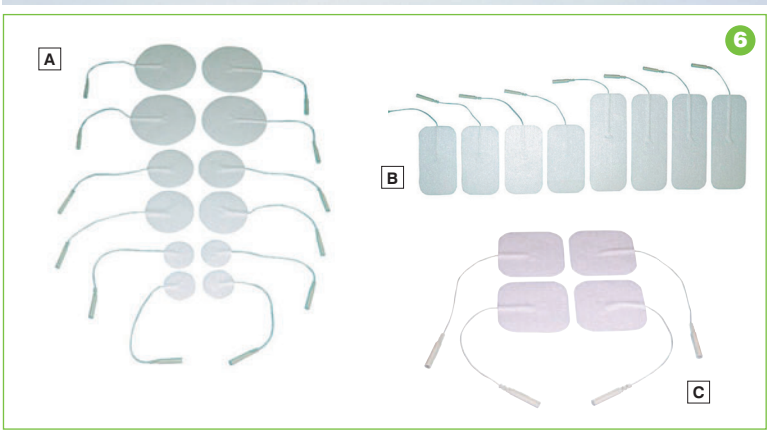
S0034 A 30mm Dia. Round (Pack of 4)

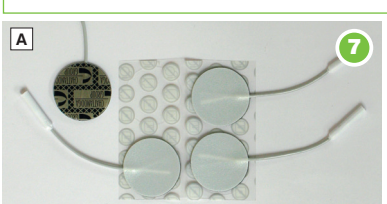
S0035 B 50 x 50mm (Pack of 4)

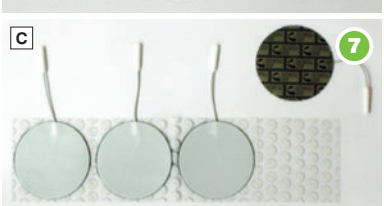
S0036 C 50mm Dia. Round (Pack of 4)

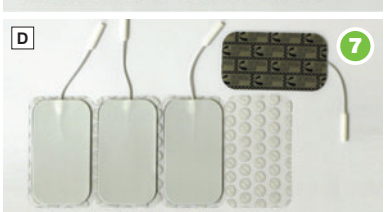
S0037 D 50 x 90mm (Pack of 4)
S0038 70mm Dia. Round (Pack of 4)











1 Aquasonic® 100 Ultrasound Gel

Aquasonic® 100 is the most widely used gel for diagnostic and therapeutic medical ultrasound. Recommended for all procedures where a viscous gel is required. Hypoallergenic, bacteriostatic and non-sensitising, this gel will not stain clothes, damage transducers or irritate skin.

303101 1 Litre
303102 5 Litre

2 Ultrasound Gel 5ltr - Eko Bag

5 litres of Ultrasound Gel supplied in a clear Eko Bag with a built-in handle for ease of carrying. Each container is also supplied with a free 250ml empty bottle, and also a nozzle that screws onto the neck to make it easier to decant.

The packaging is much softer than the original cubitainer, making it more economical as every last drop can be squeezed out and also, once empty, the bag can be rolled up for easy and efficient disposal.

220015

3 Mobilis Rolyan Ultrasound Gel

This ultrasound gel is water-soluble and will not irritate tissue or damage the ultrasound head.

009850 A 5ltr non rigid container + free empty 250ml bottle
009731 250ml bottle

S0057 B 1ltr bottle
S0058 250ml empty bottles x 10

S0259 C Pump dispenser to fit 5ltr gel container

4 Lectron II Electrode Gel

Ideal for use with muscle stimulators, TENS etc. It will not breakdown or irritate. Available in three sizes.

S0214 60ml Lectron gel
S0590 90ml Lectron gel
S0591 250ml Lectron gel

5 High Conductive Gel 250ml

This high Conductive Gel is excellent for problem applications such as treatment through hair, especially useful in animal therapy.

220078

6 Aquaflex Ultrasound Gel Pad

A 2cm x 9cm aqueous, flexible, disposable ultrasound standoff for use in difficult to visualize and near field areas, or when gels alone won't do. Disposability eliminates the risk of cross contamination in diagnostic and therapeutic ultrasound procedures.

Features:

- Requires no gel, except in prolonged procedures
- Requires only gentle, even pressure
- Disposable
- Cushions sensitive areas
- Hypoallergenic, bacteriostatic

3043B Single Pad
3043A Box of 6

7 Disinfectant wipes

These wipes are designed to disinfect hard surfaces, ultrasound applicators and couches etc. They contain a 70% w/w Isopropyl Alcohol solution which is active against grampositive and gram-negative bacteria as well as most viruses including Salmonella, Listeria, E.coli, TB, HIV and MRSA.

S0922 A Pocket Packet 70
(wipe size 70mm x 130mm - 70 wipes per pack)

S0923 B Container 100
(wipe size 130mm x 180mm - 100 wipes per container)

1 Trolley for Enraf 4 Series with trays

This new trolley is perfect for any of the Enraf 4 series equipment to sit on. The trolley has a 250ml ultrasound gel holder and lockable castors. Height 900mm. Width 430mm. Depth 400mm.

022094

2 2 Level Trolley

With drawer and large metal castors.
Width 510mm. Depth 430mm. Height 810mm

S0153

3 Wide 2 Level Trolley with drawer

Width 63mm. Depth 430mm. Height 710mm

S0220

4 3 Level Trolley

With drawer and large metal casters.
Width 510mm. Depth 430mm. Height 1000mm.

220123

5 Mobile Pro Padded Carry Bag

This new bag has been designed for use with the Enraf 4 series range of machines; it is easy to use, with a simple peel back cover to access all the controls, and when closed ensures that the unit is kept clean and secure. With pockets both sides to store heads and accessories it will make units truly portable. Ideal for use with All Enraf 4 series including combination, ultrasound , Interferential and laser.

09 131 2016

6 Bags & Cases

A choice of soft padded carry bag or hard carry case. The bag has an extra strong strap and plenty of storage space in its four compartments. The hard carry case is perfect for regular movement of items that require extra protection.

S0405 A Hard carry case

S0411 A Hard carry case with foam inserts

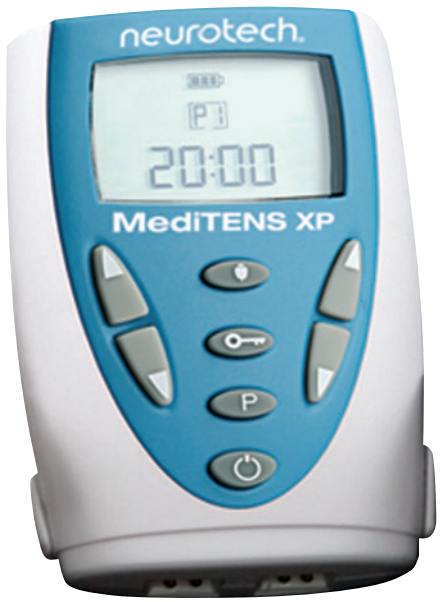
S0535 B Soft padded carry case

INFORMATION
Please refer to pages 536 to 537 for additional trolleys.

SHOWN WITH 4 SERIES UNIT

ENRAF 4 SERIES MOBILE BAG

1



1 MediTENS XP Labour & General

For Obstetric and General use - Advanced dual channel digital TENS therapy for pain management

Features:

- 5 easy to select TENS programmes
- Combined pain-gate and endorphin release programme targeting chronic pain
- Sweeping TENS programme for targeting acute pain
- 'Trigger' button to maximise pain relief - perfect for obstetric use
- Pulse frequency 4-150Hz
- Pulse width 150μsec
- Intensity lock button
- Belt clip

018942

2

2 SKF Dual Channel TENS

A low cost TENS unit that offers all the main features required from a TENS unit but with high quality components to ensure reliability. Standard version includes TENS with case, battery, leads, self adhesive electrodes and operating manual. Deluxe version additionally includes gel and tape.

Features

- Selectable modes: Normal, burst and modulated
- Variable frequency 2-150Hz
- Variable pulse width 30-260μsecs
- Weight 115g including battery

Specification

Base Unit	Internally powered (9V PP3)
No. of channels	2 (isolated) outputs
Output intensity	0-80mA peak,
Dimensions	Width 6.5cm, depth 2.3cm, height 9.5cm
Warranty period	3 years - unit only

S0262 Standard
S1305 Deluxe

3

4

3 Neen TENS

A dual channel digital TENS unit. Its compact and user friendly design make it perfect for everyday use. It has eight preset programmes and has three customisable programmes so can be tailored to specific patient needs.

Features:

- Selectable modes: Normal, burst, modulate
- Variable frequency 2-150Hz.
- Variable pulse width 60-250μs
- Patient compliance timer
- Belt clip
- Auto switch off after four minutes of non use
- Dimensions: 8cm x 6.7cm x 4.5cm

012530

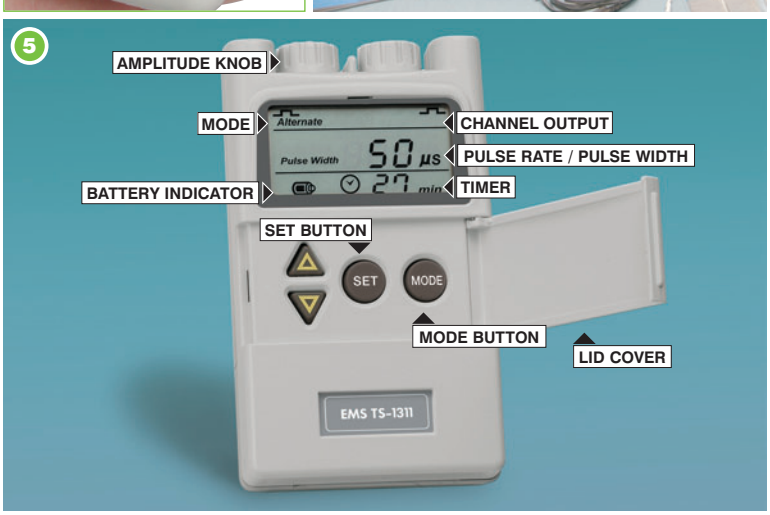
4 Acticare TSE

Transcutaneous Spinal Electroanalgesia (TSE) is a form of electrical pain relief that bridges the gap between TENS machine and implanted spinal cord stimulators.

- Transcutaneous Electrical Nerve Stimulation (TENS) Constant, Burst, and Modulated modes
- High Frequency TENS up to 500Hz
- Acupuncture-like TENS (AL-TENS) down to 1Hz
- Neuromuscular stimulation (NMES)
- High voltage pulsed galvanic stimulation

AA971619

5



5 11th Generation Digital EMS Unit

A portable dual channel device for muscle exercise and treatment of injury. A series of stimulated contraction and relaxation phases will enable an individual to build, tone, strengthen and improve contour to the muscles. Scientific design with accurate setting can be proven to exercise body muscle fast, efficiently and effectively. With a large LCD display and flip clip design. Contains: 1 x EMS unit, carrying case, 2 sets of lead wires, 4 self-adhesive electrodes, 1 x 9v battery and an instruction manual. Dimensions: 24 x 59 x 101mm.

AA9722

INFORMATION
For Muscle Stimulation, please see pages 459 to 464

1 Genufix & Lumbofix

The new dimension in Patient-friendly electrotherapy

With a 'fix' garment the patient doesn't have to remember where exactly to place the electrode pads!

When pain restricts mobility and patients find it difficult to comply with pad placement advice, treatment outcomes with home based TENS and NMES often suffer.

These new conductive garments from neurotech have been specifically developed to improve patient compliance by simplifying correct electrode pad placement. Better treatment outcomes are the result.

Features

- Breath-O-Prene® material
  - Latex-free and adhesive-free
  - Unique micro climate control system
  - Stretch and recovery characteristics
- One size fits all
- Thin, low profile construction
- Reusable

Garments are used with Meditens XP - Needs to be purchased separately. See page 482.

Universal connector that allows connection to all TENS machines coming soon – please ask for details

022204 Genufix TENS applicator for knee
022206 Lumbofix applicator for the back
022205 Genufix/Lumbofix replacement electrodes
5cm diameter. Packk of 4.

Theraknit™ Electrodes

Designed to be used in conjunction with pulsed galvanic electrostimulation for muscle stimulation and TENS for reduction of pain and swelling. These garments eliminate guesswork in the size and placement of electrodes - they stimulate the entire involved area for maximum therapeutic effect.

2 Theraknit™ Elbow Sleeve

		Circumference
A939220	Small	15-23cm
A939221	Medium	25-30cm
A939222	Large	30cm

3 Theraknit™ Knee Sleeve

		Circumference
A939230	Small	30-36cm
A939231	Medium	38-46cm
A939232	Large	46cm

4 Theraknit™ Glove

		Palm Width
A939200	Small	Up to 8cm
A939201	Medium	8-9cm
A939202	Large	9-10cm
A939203	X-Large	Over 10cm

5 Theraknit™ Sock

		Mens Sock Size
A939210	Small	6-9
A939211	Medium	10-13
A939212	Large	14 and up

6 Theraknit™ Pigtail-Snap Adaptor

554291 Pigtail-Snap Adaptor

BAXOLVE XP®

Baxolve is the latest innovative means of controlling back pain using two clinically proven therapies, Lumbar Support and TENS, in one integrated belt.

BAXOLVE Lumbar Support and TENS can be used together for maximum pain relief or separately, as the situation requires.

Quality features

- **Easy Fastening and adjustment system**

  Fitted with a simple Velcro based fastening system with pockets and thumb loops. Baxolve XP® is easy to apply even for elderly patients at home.

- **Skin friendly material suitable to wear all year round**

  Baxolve XP® is made from a specially developed very thin elasticated skin friendly material called Flextex™. It has excellent breathability and humidity management characteristics with any excess moisture being quickly carried to the surface where it can evaporate.

- **Developed by experts and clinically tested**

  Behind the development of Baxolve XP®, lies years of experience of leading orthopaedic and orthotic experts. Every detail was optimised, checked and validated to ensure the product's compliance with the highest quality standards and the needs of doctors and patients.

How to use Baxolve XP®

1 For great support

Use just the lumbar support belt to ease lower back pain or help prevent its onset. The BAXOLVE belt supports the spinal and abdominal muscles and restricts painful movement. This can improve posture and positional awareness.

2 For enhanced pain relief

Attach the specially designed unique 'pelotte' or massage pad. The small rubber nipples mounted on the pad have a massage effect on the lower spine area, improving local blood circulation and helping to reduce pain.

3 For further compression

Attach the outer Duopress® belt for extra comfort, support and compression.

4 For maximum pain relief with lumbar support and TENS

The outer Duopress® belt also contains the attachments for the MediTENS XP unit. The electrode cables are completely integrated so there is no cable spaghetti! Simply attach the electrodes to the belt, plug the TENS unit in and switch on!

Clinical Research

Clinical research has demonstrated that lumbar support and TENS are an effective method of pain relief. For a more in-depth insight into the clinical trials please visit www.mobilisrolyan.com

Testimonials

"With an increasing number of people becoming addicted to pain killers due to prolonged back pain, new products which offer drug free relief from back pain are to be welcomed. BAXOLVE™ combines two clinically proven therapies, TENS and lumbar support, giving the patient control of their pain management and simultaneously easing the burden on the health services".
Dr Peter Skew, President of the British Institute of Musculoskeletal Medicine

	Size	Waist (cm)	Waist (inches)
0217301	1	64-78	25-30
0217302	2	78-92	30-36
0217303	3	92-106	36-41
0217304	4	106-120	41-47
0217305	5	120-142	47-55

Includes Lumbar Support and MediTENS XP.
(See page 482 for details of TENS machine.)

SPARES
Spares are available for these products, making them suitable for refurbishment.
For full spares listing, see pages 1193 to 1200.

1 Self Adhesive Electrodes

Suitable for all TENS, STIM, FES and EMG applications
• Reusable, comfortable and long lasting.

012571	50 x 50mm	Pack of 4
012572	50 x 90mm	Pack of 4
221958	50 x 100mm	Pack of 4
012574	30mm Round	Pack of 4
012575	50mm Round	Pack of 4
012576	75mm Round	Pack of 4

2 Durastick II Electrodes

Highest quality range of flexible yet strong self-adhesive electrodes with a unique silver printed conductor. They are easy to remove and extremely durable.

S0035	50 x 50mm	Pack of 4
S0037	50 x 90mm	Pack of 4
S0034	30mm Round	Pack of 4
S0036	50mm Round	Pack of 4
S0038	70mm Round	Pack of 4

3 Uni-Tab™ Electrodes

Single use electrodes with low profile design. Constructed for clinical applications to promote hygienic treatment. All Uni-Tab™ electrodes require the purchase of an adaptor to attach a standard pin to the electrode tab.

09 117 7633	3 x 4cm	Pack of 48
09 117 7641	5 x 5.7cm	Pack of 48
09 117 7658	10 x 5.7cm	Pack of 48

4 Uni-Tab™ Pin to Alligator Clip Adaptors

Convert a standard 2cm pin to alligator clip for attachment to Uni-Tab™ electrodes.

09 117 7666 Black Adaptor
09 117 7674 Red Adaptor

5 Unipatch® Superior Silver Electrodes

Silver conductor results in optimal current dispersion and increased patient comfort. Soft, non-irritating gel conforms and adheres to irregular surfaces. Flexible, soft fabric backing is manufactured with an outer coating to increase electrode durability. Moulded lead wire connector accepts minor variations in pin diameters.

	Size/Shape	Quantity
2371	5cm Round	40
552371	5cm Round	4
2372	7cm Round	40
552372	7cm Round	4
2373	5cm Square	40
552373	5cm Square	4
2377	5 x 9cm	40
552377	5 x 9cm	4

6 Re-ply™ Snap Connecting Electrodes

Electrodes are reusable, economical and self-adhering. Low profile design is available in two different sizes. These electrodes can be used for multiple applications up to 14 days.

922472	5 x 5cm	Pack of 4
922473	5 x 10cm	Pack of 4

7 Reflex Carbon Electrodes

Pre-Gelled Carbon Electrodes
Re-usable, self-adhering, pre-gelled electrodes.

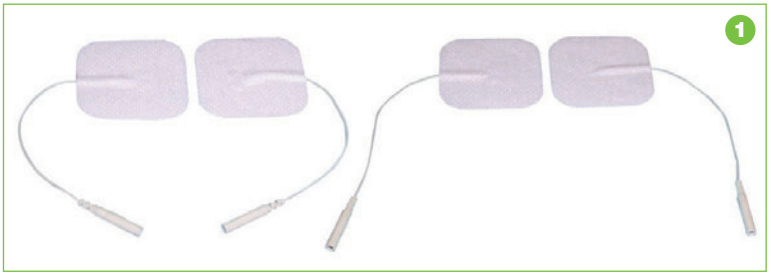
09 117 7708 5 x 5cm
09 117 7716 4.5 x 10cm (High Heat)
09 117 7724 4 x 4.5cm (High Heat)
09 117 7732 4 x 4.5cm

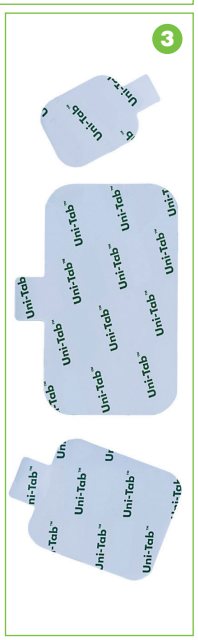
Top Connecting Non-Adhesive Carbon Electrodes
To be used with patches (listed below).

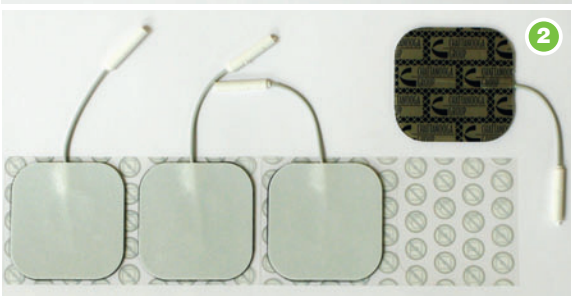
09 117 7740 4 x 4.5cm, Pack of 4
09 117 7757 4 x 10cm, Pack of 4
09 117 7773 4 x 10cm, Pack of 20

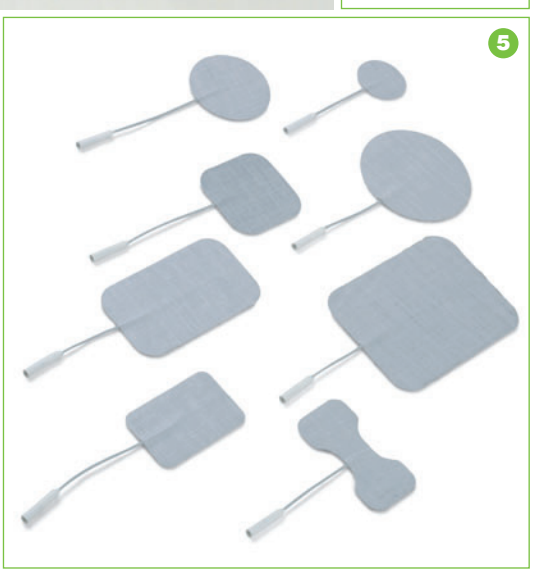
Tape Patches
Single use, disposable patches are designed to be used with non-adhesive carbon electrodes (above).

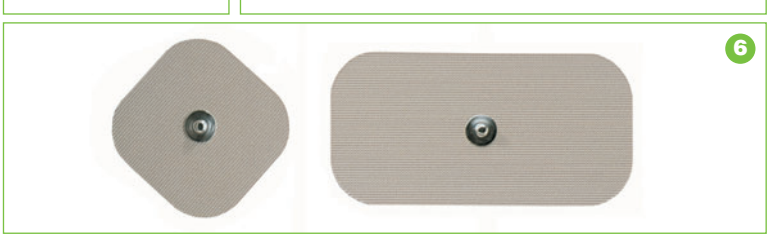
09 117 7781 7.5 x 7.5cm, Pack of 100
09 117 7799 7.5 x 12.5cm, Pack of 100

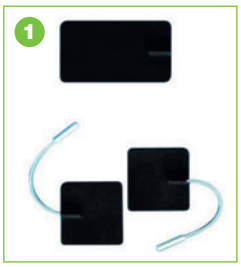


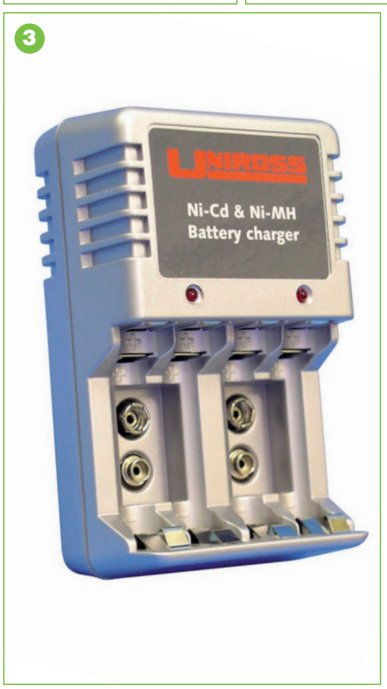


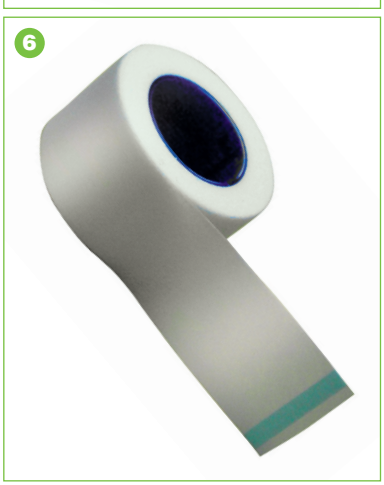


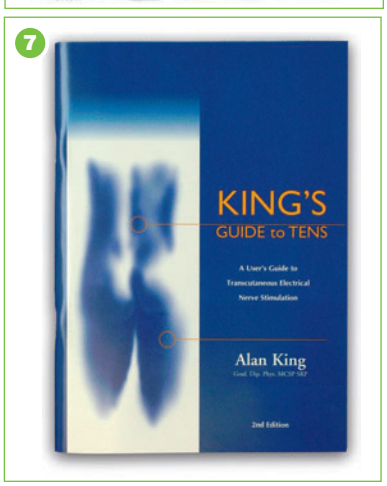












1 Rubber Electrodes

S0237	Rubber electrode 5x5cm (pair) with pigtails
S1790	Rubber electrode 9x5cm (pair) with pigtails

2 TENS Leads

013920	Replacement TENS leads for NEEN TENS, Neurotrac Sports & Sports XL
S1448	Replacement TENS leads for SKF Dual Channel TENS

3 Rechargeable Battery & Charger

S0133	Battery charger
S0134	Rechargeable battery PP3
220869	Rechargeable battery AA, Pack of 4

4 Standard Batteries

S0394	PP3 Battery
022128	Duracell AAAA Batteries, Pack of 2
022075	Duracell size AA Battery, Pack of 4
022076	Duracell size C Battery, Pack of 2

5 Lectron II Electrode Gel

Ideal for use with muscle stimulators, TENS etc. It will not breakdown or irritate. Available in three sizes.

S0214	60ml Lectron gel
S0590	90ml Lectron gel
S0591	250ml Lectron gel

6 Micropore Tape

Micropore tape for holding electrodes to skin. 2.5 x 10cm.

S0138

7 Kings Guide to Tens

A simple step by step guide to managing pain using a TENS unit. This well illustrated guide has been written for the person with no previous medical knowledge

221520

8 Painwave

The Painwave X4000 has been designed stimulate the body's own natural pain relieving processes in order to reduce acute and chronic pain symptoms and encourage wound healing.

It uses the principles of Pulsed Electromagnetic Field Therapy (PEMF) and emits a pulsed electromagnetic wave that penetrates cells around the area of pain which:

- stimulates cell metabolism
- improves cellular oxygen utilisation
- improves blood circulation
- encourages the release of endorphins and enkephalins
- encourages and accelerates removal of pain-causing toxins
- activates macrophages to strength the immune system

..thereby promoting healing and regeneration and reducing pain.

The device is applied directly to the point of pain or used on acupuncture points. It is most beneficial when moved in a circular motion over the point of pain, which allows the therapeutic effects to extend through all types of body tissue at least 6cm and to a lateral radius of 9cm.

It can be used through clothing, dressings (including hydrogels and plaster casts).

Benefits

- Non invasive
- Light, compact and portable
- Charge it up like your mobile phone, lasts 50 x 7 min cycles
- Safe - no possibility of over treating
- People with all types of implants (except heart pacemakers) can be treated
- No heat is generated so can be used to accelerate healing in people with pins and bone plates

Unlike TENS the Painwave does not block pain signals to the brain via pain gateways. It also does not contain magnets.

017712

1 Pulse Press Solo

Specially designed for use at home.

This easy to use unit can be used to reduce the number of hospital visits and improve patient compliance for better clinical results. The unit offers:

- Compact - The smallest unit in the range.
- Strong - virtually unbreakable plastic case.
- Simple - easy to use, ergonomic design.
- Quiet - reliable maintenance free Cyclone pump.
- Adjustable pressure - adjustable for individual comfort.
- Adjustable time cycle - 5 to 120 seconds for wide variety of treatment regimes.
- Single or twin garment inflation - can treat two limbs simultaneously.
- Automatic deflation - fail safe feature ensures garment fully deflates at the end of the treatment cycle.
- Single chamber garments - for uniform limb compression.

012213

2 Pulse Press Solo Pro

Specifically designed for ward and physiotherapy department use.

The unit comes complete with carrying handle for maximum portability and flexibility.

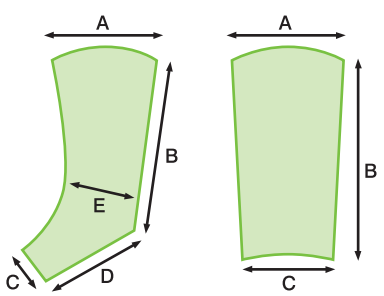
- Compact - only slightly larger than the Solo.
- Strong - case is made of a special plastic polymer for extra strength.
- Simple - easy to use.
- Quiet - does not disturb other patients.
- Adjustable pressure - for extra patient comfort.
- Digital Pressure Meter - for safety and ease of use.
- Adjustable time cycle - for variation of therapy cycles.
- Single or twin garment - can treat two limbs simultaneously.
- Wide range of garments - for maximum flexibility.
- Automatic deflation - fail safe ensures that garment fully deflates at the end of the treatment cycle.
- Single chamber garments - for uniform limb compression.

012214

3 Intermittent Compression Chamber Garments

For use with the Pulse Press Solo and Solo Pro.

Code	Description	A	B	C	D	E
004875	Half arm sleeve	50cm	43cm	42cm		
001845	Long arm	54cm	74cm	42cm		
004882	Wide arm sleeve	60cm	76cm	47cm		
004885	Foot & Ankle	50cm	25cm	30cm	31cm	50cm
004888	Half leg	60cm	50cm	30cm	31cm	50cm
001847	Long leg	67cm	66cm	30cm	31cm	50cm
004890	Long leg	70cm	74cm	30cm	31cm	50cm
004891	Long leg	73cm	82cm	30cm	31cm	50cm
004893	Long leg	76cm	90cm	30cm	31cm	50cm



1

1 Pulse Press Multi 3 Channel

Specially designed for home use, this easy to use unit can be used to reduce hospital visits and improve patient comfort and well-being.

- Compact - unobtrusive in the home.
- Simple - easy to use ergonomic design.
- Strong - case is manufactured in special plastic polymer for strength, long life and easy cleaning.
- Three and six chambers available - for improved results and comfort.
- Adjustable inflation and deflation time - for variety of therapies (5 to 120 secs).
- Adjustable pressure - for individual comfort.
- Digital pressure meter - for safety and ease of use.
- Quiet - reliable maintenance free Cyclone pump.
- Automatic deflation - fail safe feature ensures that garment fully deflates at the end of the treatment cycle.

012215

2

2 Pulse Press Multi 6 Channel

Specially designed for home use, this easy to use unit can be used to reduce hospital visits and improve patient comfort and well-being.

- Compact - unobtrusive in the home.
- Simple - easy to use ergonomic design.
- Strong - case is manufactured in special plastic polymer for strength, long life and easy cleaning.
- Three and six chambers available - for improved results and comfort.
- Adjustable inflation and deflation time - for variety of therapies (5 to 120 secs).
- Adjustable pressure - for individual comfort.
- Digital pressure meter - for safety and ease of use.
- Quiet - reliable maintenance free Cyclone pump.
- Automatic deflation - fail safe feature ensures that garment fully deflates at the end of the treatment cycle.

012216

3

3 Pulse Press Multi 6 Pro

A 6 chamber system that provides gradient sequential compression (pressure is slightly lower in each chamber - distal to proaimal).

- Strong - case is made of special plastic polymer for extra strength and long life.
- Simple - easy to use controls.
- Flexible - single or simultaneous twin garment inflation.
- Accurate- microprocessor control ensures feature accuracy.
- Adjustable Pressure - for extra patient comfort.
- Digital Pressure Meter - easy to read for total confidence and ease of use.
- Adjustable inflation and deflation times - for variety of therapies.
- Therapy Timer - offers 15 mins to 120 mins, plus continuous run feature.
- Automatic deflation - fail safe feature, ensures that garment fully deflates at the end of the cycle.

012217

4 Sequential Compression Chamber Garments

For use with the Pulse Press Multi 3, 6 & 6 Pro.

Pulse Press offer the widest range of compression garments currently available and all carry a six months warranty. Specially formulated lightweight material combines cool comfort with durability. Large pull ring zip feature ensures easy application and removal. Easy clean - soft, flexible anti kink feed hose.

Code	Description	A	B	C	D	E
010362	Half Arm	50cm	43cm	42cm		
009727	Wide Long Arm	60cm	76cm	47cm		
010363	Half Leg	60cm	50cm	30cm	31cm	50cm
009730	Long Leg	70cm	74cm	30cm	31cm	50cm